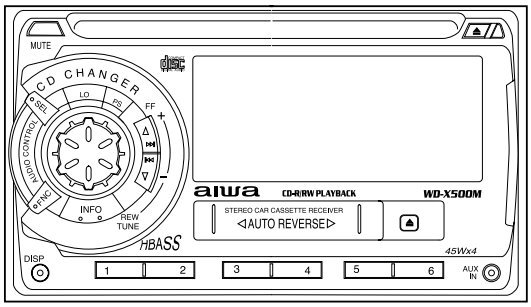
aiwa
SERVICE

WD-X500M YU(ST)



SERVICE MANUAL

STEREO CAR
CD CASSETTE RECEIVER

BASIC TAPE MECHANISM : CDS-801AW1
BASIC CD MECHANISM : CDC02AW2

aiwa

S/M Code No. 09-015-356-6N1

DATA

SPECIFICATIONS

RADIO SECTION

(FM)

Frequency Range:	87.5 MHz – 108 MHz (100-kHz steps) * or 87.5 MHz – 108 MHz (50-kHz steps) *
Usable Sensitivity:	12.7 dBf
50 dB Quieting Sensitivity:	17.2 dBf
IF Rejection:	80 dB
Frequency Response:	30 Hz – 15,000 Hz
S/N Ratio:	63 dB
Stereo Separation:	35 dB at 1 kHz
Alternate Channel Selectivity:	70 dB
Capture Ratio:	3 dB

(AM)

Frequency Range:	530 kHz – 1,710 kHz (10-kHz steps) *or 531 kHz – 1,602 kHz (9-kHz steps) *
Usable Sensitivity:	30 µV (30 dB)

9 k □ 10 k

* Set the frequency increment for your area using the switch on the front of the unit. (The switch is factory-set to the 10 k position)

TAPE SECTION

Tape Speed:	4.8 cm/sec. ($1^{7}/_{8}$ ips)
S/N Ratio:	50 dB
Frequency Response:	40 Hz – 14,000 Hz
Stereo Separation:	40 dB

CD SECTION

Frequency Response:	17 Hz – 20 kHz + 0/–3 dB
Dynamic Range:	More than 80 dB
Channel Separation:	More than 65 dB
S/N Ratio:	More than 85 dB
Wow/Flutter:	Unmeasurable

AUDIO SECTION

Max. Power Output:	45 W x 4 channels

AUX IN input

Input sensitivity (load impedance)

AUX IN:	300 mV (10 kΩ)

GENERAL

Power-Supply Voltage:	14.4 V (11 to 16 V allowable), DC, negative ground
Load Impedance:	4Ω
Tone Control:	Bass ± 10 dB at 100 Hz Treble ± 10 dB at 10 kHz
Preamp Output Voltage (load impedance):	2.2 V (10 kΩ)
Installation size:	178 (W) x 100 (H) x 158 (D) mm ($7^{1}/_{8}$ (W) x 4 (H) x $6^{1}/_{4}$ (D) inches)

STEERING-WHEEL REMOTE CONTROL

Dimensions:	approx. 67 (W) x 26 (H) x 27 (D) mm ($2^{3}/_{4}$ (W) x $1^{1}/_{16}$ (H) x $1^{1}/_{8}$ (D) inches) (excluding holder)
Weight:	approx. 38 g (1.33 oz) (including holder, battery)

• Design and specifications are subject to change without notice.

ACCESSORIES LIST

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-KL1-901-010		IB,YU(3L) 500M
2	8B-KL1-902-010		IB,INST,YU,YL (3L,P)500M
3	8B-KL1-007-010		CASE,DFP 2DIN
4	87-B10-141-010		NUT,5 TYPE-2
5	87-B10-143-010		UT1+5-15 W/O SLOT
6	87-B10-144-010		W,5.2-10-0.5
7	87-B10-145-010		W-SPR,5.3-8.5-1.5
8	87-B10-216-010		U+2.6-4.0 ZINC BLK (BH M2.6)
9	8B-KL1-220-010		S-SCREW,5*8TH+TAPPING
10	8Z-KT1-616-010		CONN ASSY,16P B52
11	8Z-KC1-250-010		S-SCREW,HEXAGON
12	87-B10-143-010		UT1+5-15 W/O SLOT
13	8Z-KC1-235-010		HLDR,REAR MTG

CAUTIONS WHEN SERVICING

1. Disassembly Procedure

1) Remove the COVER BOTTOM.
2) Remove the screws (pointed by the arrows), and then remove the DECK MECHANISM.
   See Fig. 1.

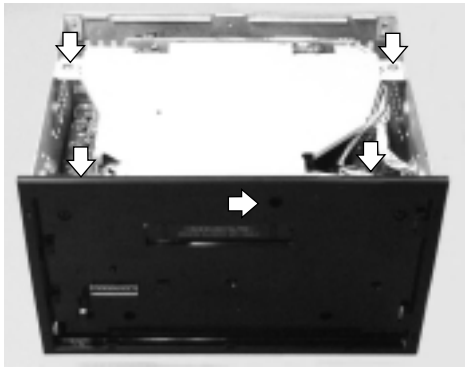


Fig-1

3) Remove the COVER TOP.
4) Remove the screws (pointed by the arrows), and then remove the CD MECHANISM.
   See Fig. 2.

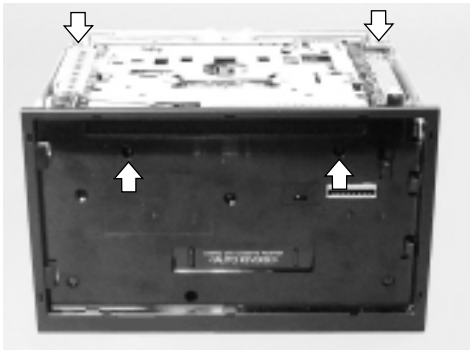


Fig-2

2. Service Position

Check the operation in the stable status (using a plate, etc.).
See Fig. 3.

Fig-3

3. Test Mode

1. Starting CD Test

1) Use solder to short-circuit the TEST lands.
   See Fig. 4.
2) Connect the ACC/BACKUP wire of connector assembly to the positive (+) terminal of power supply unit, and the ground wire, to the negative (-) terminal.
3) Adjust the voltage of power supply unit to 14.5 V, and then turn the power on.
   The test mode will start, and all LCD segments will light.
   See Fig. 5.

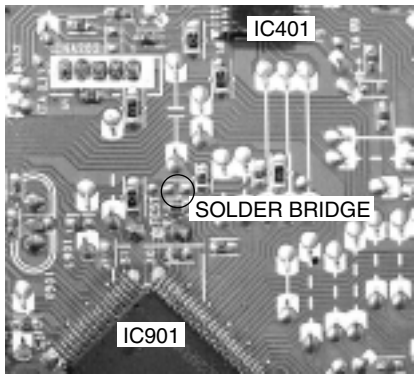


Fig-4

Fig-5

2. Releasing CD Test Mode

1) Turn the power supply unit off.
2) Disconnect each wire of connector assembly.
3) Remove the solder from the TEST lands on the Main C.B.

3. Description of CD Test Mode Functions

Mode	Operation key	Display	Operation	Details
START		All segments light		Test mode starts
LOAD/ UNLOAD	⏏	All segments light	CHUCKING	All servo OFF Laser ON VCC ON
SEARCH	RNDM 6		Continuous focus search PU lens repeats full-swing. (Note 1)	Check APC circuit. Measure laser current. Check focus error waveform.
PLAY	5 ◁REP1▷	TOC READING Track no., play time displayed. Level displayed.	Normal play. Same as in search mode if TOC READ is not possible.	Focus servo Tracking servo CLV servo Sled servo
TRAVERSE	3 INT	Track no. and play time displayed.	Play pause status	Tracking servo OFF
STOP	REP 4	All segments light	Standby status	All servo OFF Laser ON/OFF
SLED	⏭ ⏮	All segments light	⏭ PU moves to outer tracks. ⏮ PU moves to inner tracks.	Sled servo Mechanism operation check

• Check the search mode without inserting a disc.
• Press the REPEAT button to release each mode.

Note 1:
If focus search is continuously operated for 10 minutes or more, the driver IC will generate heat, the protection circuit will operate, and the CD player may not operate. In this case, turn power off, radiate heat for approx. 10 minutes, and then restart the player.

ELECTRICAL MAIN PARTS LIST - 1/3

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-538-010		IC,KIA2025P
	87-002-394-010		IC,LB1641
	87-A21-936-040		C-IC,LC75421M
	87-A21-937-040		C-IC,BA3834F
	87-A21-562-010		IC,LA4743B
	87-A21-935-030		C-IC,LC75884W
	87-A90-951-010		RCR UNIT,SBX1971-52
	8B-KL1-622-030		C-IC,UPD178078GF-550-3BA
	88-KT1-606-080		IC,PST994D
TRANSISTOR			
	87-A30-468-040		C-TR,KRC102S-RTK
	87-A30-061-080		C-TR,KTA1504GR
	87-A30-060-080		C-TR,KTC3875GR
	87-A30-295-080		TR,KRA226M
	87-A30-473-080		TR,KRC102M-AT
	87-A30-487-080		TR,KRC111M-AT
	87-A30-472-040		C-TR,KRA226S-RTK
	87-A30-469-040		C-TR,KRC111S-RTK
	87-A30-279-040		C-TR,DTC314TK
	87-A30-467-040		C-TR,KRA111S-RTK
	87-A30-299-080		TR,2SB1326
	89-418-580-080		TR,2SD1858TV2
	87-A30-302-040		C-TR,2SD1758-F5
	89-420-120-010		TR,2SD2012
DIODE			
	87-A40-250-040		C-DIODE,DAN217
	87-A40-350-080		ZENER,MTZJ4.7C
	87-020-465-080		DIODE,1SS133
	87-A40-817-040		C-ZENER,STZ6.8N
	87-A40-504-040		C-DIODE,KDS184
	87-001-783-080		DIODE,1N4002
	87-A40-650-080		ZENER,MTZJ6.8A
	87-070-334-080		ZENER,MTZJ10B
	87-A40-798-010		DIODE,1N5402 (3A/200V)
	87-A40-505-040		C-DIODE,KDS181
	87-A40-509-080		ZENER,MTZJ6.8C
	87-017-932-080		ZENER,MTZJ6.2B
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-620-080		ZENER,MTZJ6.2A
	87-A40-624-080		ZENER,MTZJ10A
MAIN C.B			
C0101	87-012-274-080		C-CAP,U 1000P-50 K B
C0102	87-012-286-080		C-CAP,U 0.01-25 K B
C0104	87-012-282-080		C-CAP,U 4700P-50 K B
C0105	87-010-498-040		CAP,E 10-16 M 5L SRE
C0106	87-012-195-080		C-CAP,U 100P-50 J CH
C0107	87-010-498-040		CAP,E 10-16 M 5L SRE
C0108	87-010-555-040		CAP,E 100-10 M 5L SRE
C0109	87-012-281-080		C-CAP,U 3900P-50 K B GRM
C0110	87-012-286-080		C-CAP,U 0.01-25 K B
C0111	87-A10-248-080		C-CAP,U 0.1-16 K BR
C0112	87-012-286-080		C-CAP,U 0.01-25 K B
C0113	87-012-286-080		C-CAP,U 0.01-25 K B
C0114	87-010-759-080		C-CAP,U 0.1-25 Z F
C0115	87-012-286-080		C-CAP,U 0.01-25 K B
C0116	87-010-495-040		CAP,E 2.2-50 M 5L SRE
C0117	87-010-787-080		C-CAP,U 0.022-25 K B
C0121	87-A11-228-080		C-CAP,U 0.027-25 K B
C0122	87-A11-228-080		C-CAP,U 0.027-25 K B
C0123	87-A10-047-080		C-CAP,U 1-10 Z F
C0124	87-A10-047-080		C-CAP,U 1-10 Z F
C0301	87-010-805-080		C-CAP,S 1-16 Z F
C0302	87-010-805-080		C-CAP,S 1-16 Z F
C0303	87-010-787-080		C-CAP,U 0.022-25 K B
C0304	87-010-787-080		C-CAP,U 0.022-25 K B
C0305	87-A10-504-080		C-CAP,U 0.047-16 K B
C0401	87-010-498-040		CAP,E 10-16 M 5L SRE
C0402	87-010-498-040		CAP,E 10-16 M 5L SRE
C0403	87-012-276-080		C-CAP,U 1500P-50 K B
C0404	87-012-276-080		C-CAP,U 1500P-50 K B
C0405	87-A11-062-080		C-CAP,S 2.2-16 Z F
C0406	87-A11-062-080		C-CAP,S 2.2-16 Z F
C0407	87-010-786-080		C-CAP,U 0.018-25 K B GRM
C0408	87-010-786-080		C-CAP,U 0.018-25 K B GRM
C0409	87-A10-781-080		C-CAP,U 0.15-10 K B
C0410	87-A10-781-080		C-CAP,U 0.15-10 K B
C0411	87-A10-781-080		C-CAP,U 0.15-10 K B
C0412	87-A10-781-080		C-CAP,U 0.15-10 K B
C0413	87-A10-047-080		C-CAP,U 1-10 Z F
C0414	87-A10-047-080		C-CAP,U 1-10 Z F
C0415	87-010-552-040		CAP,E 22-16 M 5L SRE
C0416	87-010-555-040		CAP,E 100-10 M 5L SRE
C0417	87-010-498-040		CAP,E 10-16 M 5L SRE
C0418	87-010-498-040		CAP,E 10-16 M 5L SRE
C0419	87-010-498-040		CAP,E 10-16 M 5L SRE
C0420	87-010-498-040		CAP,E 10-16 M 5L SRE
C0421	87-A10-353-080		C-CAP,U 0.22-10 K B
C0422	87-A10-353-080		C-CAP,U 0.22-10 K B
C0423	87-A10-047-080		C-CAP,U 1-10 Z F
C0424	87-A10-047-080		C-CAP,U 1-10 Z F
C0425	87-A10-047-080		C-CAP,U 1-10 Z F
C0426	87-A10-047-080		C-CAP,U 1-10 Z F
C0431	87-012-270-080		C-CAP,U 470P-50 K B
C0432	87-012-270-080		C-CAP,U 470P-50 K B
C0433	87-012-270-080		C-CAP,U 470P-50 K B
C0434	87-012-270-080		C-CAP,U 470P-50 K B
C0441	87-A10-260-080		C-CAP,U 0.1-16 K B
C0442	87-A10-260-080		C-CAP,U 0.1-16 K B
C0443	87-A10-260-080		C-CAP,U 0.1-16 K B
C0444	87-010-805-080		C-CAP,S 1-16 Z F
C0445	87-012-358-080		C-CAP,S 0.47-10 Z F CM/CB
C0446	87-012-358-080		C-CAP,S 0.47-10 Z F CM/CB
C0447	87-A10-260-080		C-CAP,U 0.1-16 K B
C0491	87-A11-127-080		CAP,TC U 3900P-50 K B
C0492	87-010-498-040		CAP,E 10-16 M 5L SRE
C0501	87-012-358-080		C-CAP,S 0.47-10 Z F CM/CB
C0502	87-012-358-080		C-CAP,S 0.47-10 Z F CM/CB
C0503	87-012-358-080		C-CAP,S 0.47-10 Z F CM/CB
C0504	87-012-358-080		C-CAP,S 0.47-10 Z F CM/CB
C0505	87-012-271-080		C-CAP,U 560P-50 K B
C0506	87-012-271-080		C-CAP,U 560P-50 K B
C0507	87-012-271-080		C-CAP,U 560P-50 K B
C0508	87-012-271-080		C-CAP,U 560P-50 K B
C0511	87-010-553-040		CAP,E 47-16 M 5L SRE
C0512	87-010-805-080		C-CAP,S 1-16 Z F
C0514	87-012-368-080		C-CAP,S 0.1-50 Z F
C0515	87-012-368-080		C-CAP,S 0.1-50 Z F
C0516	8A-KC7-623-000		CAP,E 2200-16 125 BT
C0571	87-012-368-080		C-CAP,S 0.1-50 Z F
C0572	87-012-368-080		C-CAP,S 0.1-50 Z F
C0573	87-012-368-080		C-CAP,S 0.1-50 Z F
C0574	87-012-368-080		C-CAP,S 0.1-50 Z F
C0591	87-012-278-080		C-CAP,U 2200P-50 K B
C0592	87-010-074-040		CAP,E 4.7-35 M 5L SRE
C0593	87-012-368-080		C-CAP,S 0.1-50 Z F
C0601	87-012-278-080		C-CAP,U 2200P-50 K B
C0603	87-012-278-080		C-CAP,U 2200P-50 K B
C0608	87-010-787-080		C-CAP,U 0.022-25 K B
C0609	87-010-555-040		CAP,E 100-10 M 5L SRE
C0610	87-010-787-080		C-CAP,U 0.022-25 K B
C0611	87-010-555-040		CAP,E 100-10 M 5L SRE
C0612	87-010-759-080		C-CAP,U 0.1-25 Z F
C0615	87-010-498-040		CAP,E 10-16 M 5L SRE

ELECTRICAL MAIN PARTS LIST - 2/3

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C0616	87-010-498-040		CAP,E 10-16 M 5L SRE
C0617	87-010-759-080		C-CAP,U 0.1-25 Z F
C0618	87-010-553-040		CAP,E 47-16 M 5L SRE
C0621	87-010-759-080		C-CAP,U 0.1-25 Z F
C0622	87-010-553-040		CAP,E 47-16 M 5L SRE
C0791	87-A10-047-080		C-CAP,U 1-10 Z F
C0792	87-A10-047-080		C-CAP,U 1-10 Z F
C0793	87-012-282-080		C-CAP,U 4700P-50 K B
C0794	87-012-282-080		C-CAP,U 4700P-50 K B
C0821	87-A10-047-080		C-CAP,U 1-10 Z F
C0822	87-A10-047-080		C-CAP,U 1-10 Z F
C0901	87-012-182-080		C-CAP,U 27P-50 J CH
C0902	87-012-182-080		C-CAP,U 27P-50 J CH
C0903	87-010-759-080		C-CAP,U 0.1-25 Z F
C0904	87-010-759-080		C-CAP,U 0.1-25 Z F
C0905	87-010-759-080		C-CAP,U 0.1-25 Z F
C0907	87-012-195-080		C-CAP,U 100P-50 J CH
C0908	87-012-195-080		C-CAP,U 100P-50 J CH
C0909	87-010-759-080		C-CAP,U 0.1-25 Z F
C0910	87-012-274-080		C-CAP,U 1000P-50 K B
C0911	87-018-123-080		CAP,TC U 220P-50 K B UP050
C0912	87-012-199-080		C-CAP,U 220P-50 J CH
C0915	87-016-039-090		CAP,DL 0.022F-5.5 Z 70 FM
C0981	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
C0985	87-010-759-080		C-CAP,U 0.1-25 Z F
CN0601	8Z-KT1-611-010		CONN,16P CAM-B51
CN0891	87-A61-219-010		CONN,20P H 52089-2020
CN0971	88-KTA-603-010		CONN,15P CAM-B68
CNA0202	8B-KL1-617-010		CONN ASSY,5P DECK AUDIO
CNA0222	8B-KL1-616-010		CONN ASSY,12P DECK CONT
⚠F0601	8Z-KC1-621-010		FUSE,15A 32V
J0101	8Z-KT1-614-010		ANT,AW-002
J0301	8A-KC7-620-010		JACK,DIN 13 P SKDS1302
J0401	87-A61-224-010		JACK,PIN 4P XR-401
L0101	87-003-143-080		COIL,4.7UH K LAL02
L0104	8Z-KT1-619-010		COIL,68MH K7-D
L0401	87-003-143-080		COIL,4.7UH K LAL02
L0601	8B-KCF-615-010		FLTR,AMORPHOUS -CHOKE
L0791	87-003-102-080		COIL,10UH J LAL02
L0901	87-003-149-080		COIL,47UH J LAL02
LED0901	87-027-262-010		LED,TLR124 RED
SW0901	87-A91-070-010		SW,TACT SKHHLV
SW0904	87-A91-152-010		SW,SL 1-1-2 SSSS212-11-A
TU0101	8B-KCF-621-010		TU UNIT, FAE347-A22
X0901	87-A70-175-010		VIB,XTAL 4.5MHZ AT-49
FRONT C.B			
C0701	87-010-805-080		C-CAP,S 1-16 Z F
C0702	87-A10-504-080		C-CAP,U 0.047-16 K B
C0703	87-A10-504-080		C-CAP,U 0.047-16 K B
C0704	87-012-272-080		C-CAP,U 680P-50 K B GRM
C0705	87-010-805-080		C-CAP,S 1-16 Z F
C0706	87-A10-260-080		C-CAP,U 0.1-16 K B
C0711	87-A10-260-080		C-CAP,U 0.1-16 K B
C0721	87-010-787-080		C-CAP,U 0.022-25 K B
C0722	87-010-787-080		C-CAP,U 0.022-25 K B
C0771	87-010-805-080		C-CAP,S 1-16 Z F
CON0701	88-KTA-602-010		C-CONN,15P CAM-B67
CON0702	8B-KL1-618-010		F-CABLE,3P 60MM (AUX)
LCD0701	8B-KL1-626-010		LCD,BKL-1
LED0731	87-A41-100-040		LED,SEL6410E GRN
LED0732	87-A41-100-040		LED,SEL6410E GRN
LED0733	87-A41-100-040		LED,SEL6410E GRN
LED0734	87-A41-059-080		LED,SEL6427EP GRN
LED0735	87-A41-059-080		LED,SEL6427EP GRN
LED0736	87-A41-100-040		LED,SEL6410E GRN
LED0737	87-A41-100-040		LED,SEL6410E GRN
LED0738	87-A41-100-040		LED,SEL6410E GRN
LED0739	87-A41-100-040		LED,SEL6410E GRN
LED0740	87-A41-100-040		LED,SEL6410E GRN
LED0741	87-A41-064-010		LED,BR2222S RED
LED0742	87-A41-064-010		LED,BR2222S RED
LED0743	87-A41-063-010		LED,EBR3368S RED
LED0751	87-A92-042-090		LED,KM2520MBC30 BLU
LED0752	87-A92-042-090		LED,KM2520MBC30 BLU
LED0753	87-A40-814-080		LED,SEL2E10C BLU
LED0761	87-A41-064-010		LED,BR2222S RED
LED0762	87-A41-064-010		LED,BR2222S RED
PL0701	8B-KCF-631-010		LAMP,9V-65MA
PL0702	8B-KCF-631-010		LAMP,9V-65MA
PL0703	8B-KCF-631-010		LAMP,9V-65MA
PL0704	8B-KCF-631-010		LAMP,9V-65MA
SW0701	87-A91-987-080		SW,TACT SKQCAB
SW0702	87-A91-987-080		SW,TACT SKQCAB
SW0703	87-A91-987-080		SW,TACT SKQCAB
SW0704	87-A91-987-080		SW,TACT SKQCAB
SW0705	87-A91-987-080		SW,TACT SKQCAB
SW0706	87-A91-987-080		SW,TACT SKQCAB
SW0707	87-A91-987-080		SW,TACT SKQCAB
SW0708	87-A91-987-080		SW,TACT SKQCAB
SW0709	87-A91-987-080		SW,TACT SKQCAB
SW0710	87-A91-987-080		SW,TACT SKQCAB
SW0711	87-A91-987-080		SW,TACT SKQCAB
SW0712	87-A91-987-080		SW,TACT SKQCAB
SW0713	87-A91-987-080		SW,TACT SKQCAB
SW0714	87-A91-987-080		SW,TACT SKQCAB
SW0716	87-A91-987-080		SW,TACT SKQCAB
SW0717	87-A91-987-080		SW,TACT SKQCAB
SW0718	87-A91-987-080		SW,TACT SKQCAB
SW0721	87-A91-986-010		SW,RTRY EC12E24504-15MM
PRE C.B			
C0201	87-012-272-080		C-CAP,U 680P-50 K B GRM
C0202	87-012-272-080		C-CAP,U 680P-50 K B GRM
C0203	87-012-272-080		C-CAP,U 680P-50 K B GRM
C0204	87-012-272-080		C-CAP,U 680P-50 K B GRM
C0205	87-010-263-040		CAP,E 100-10 M 11L SME
C0206	87-010-263-040		CAP,E 100-10 M 11L SME
C0207	87-012-286-080		C-CAP,U 0.01-25 K B
C0208	87-012-286-080		C-CAP,U 0.01-25 K B
C0211	87-010-401-040		CAP,E 1-50 M 11L SME
C0212	87-010-401-040		CAP,E 1-50 M 11L SME
C0213	87-012-271-080		C-CAP,U 560P-50 K B
C0214	87-012-271-080		C-CAP,U 560P-50 K B
C0215	87-010-263-040		CAP,E 100-10 M 11L SME
C0216	87-010-404-040		CAP,E 4.7-50 M 11L SME
C0218	87-010-378-040		CAP,E 10-16 M 11L SME
C0219	87-012-266-080		C-CAP,U 220P-50 K B GRM
C0223	87-010-404-040		CAP,E 4.7-50 M 11L SME
C0224	87-010-380-040		CAP,E 47-16 M 11L SME
C0225	87-010-380-040		CAP,E 47-16 M 11L SME
C0226	87-012-141-080		C-CAP,S 0.22-16 Z F C2012
C0227	87-012-141-080		C-CAP,S 0.22-16 Z F C2012
C0228	87-012-141-080		C-CAP,S 0.22-16 Z F C2012
C0229	87-012-286-080		C-CAP,U 0.01-25 K B
C0230	87-012-274-080		C-CAP,U 1000P-50 K B
C0291	87-012-266-080		C-CAP,U 220P-50 K B GRM
C0292	87-012-266-080		C-CAP,U 220P-50 K B GRM
C0293	87-012-266-080		C-CAP,U 220P-50 K B GRM
C0294	87-012-266-080		C-CAP,U 220P-50 K B GRM
CON0201	87-A60-670-010		CONN,6P H 2MM JMT
CON0202	87-A60-622-010		CONN,5P V 2MM JMT
CON0221	87-099-203-010		CONN,10P H BLK 6216
CON0222	87-A60-629-010		CONN,12P V 2MM JMT
L0201	87-005-902-080		C-COIL,S 4.7UH K LK2125
L0202	87-005-902-080		C-COIL,S 4.7UH K LK2125
L0203	87-005-902-080		C-COIL,S 4.7UH K LK2125

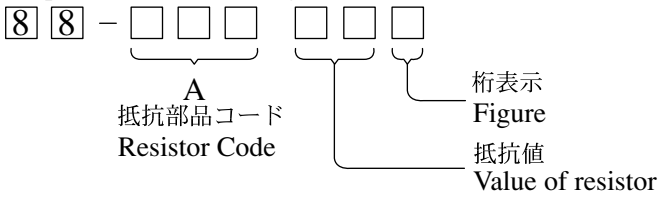
ELECTRICAL MAIN PARTS LIST - 3/3

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L0204	87-005-902-080		C-COIL,S 4.7UH K LK2125
L0210	87-003-143-080		COIL,4.7UH K LAL02
AUX C.B			
J0701	85-HRL-623-010		JACK,3.5 BLK ST BLK

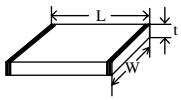
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

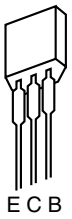
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



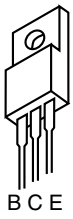
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

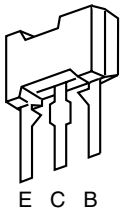
TRANSISTOR ILLUSTRATION



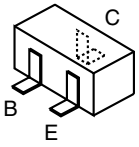
KRA226M
KRC102M
KRC111M



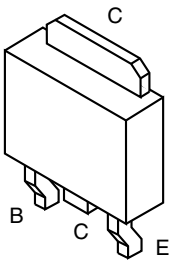
2SD2012



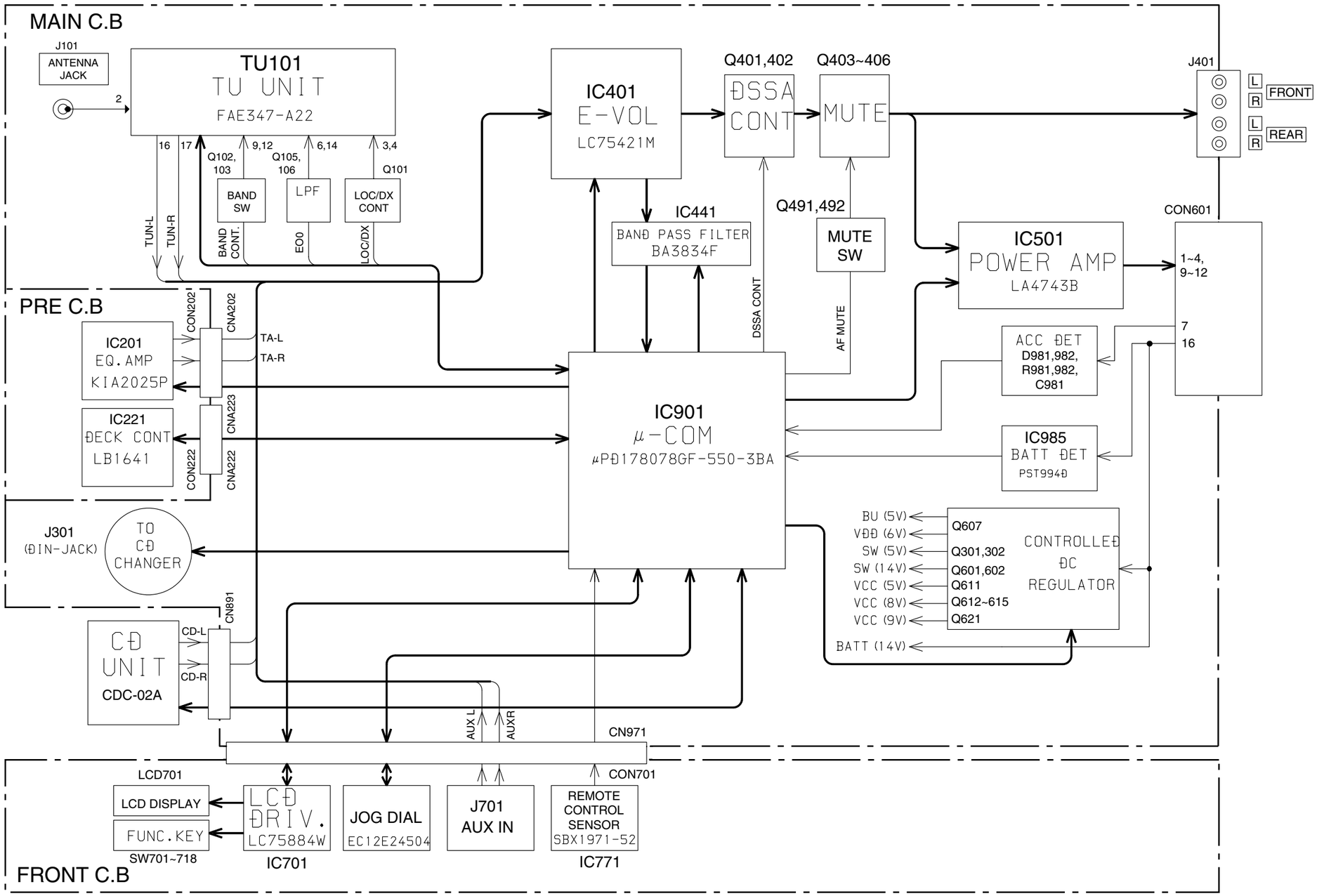
2SB1326
2SD1858



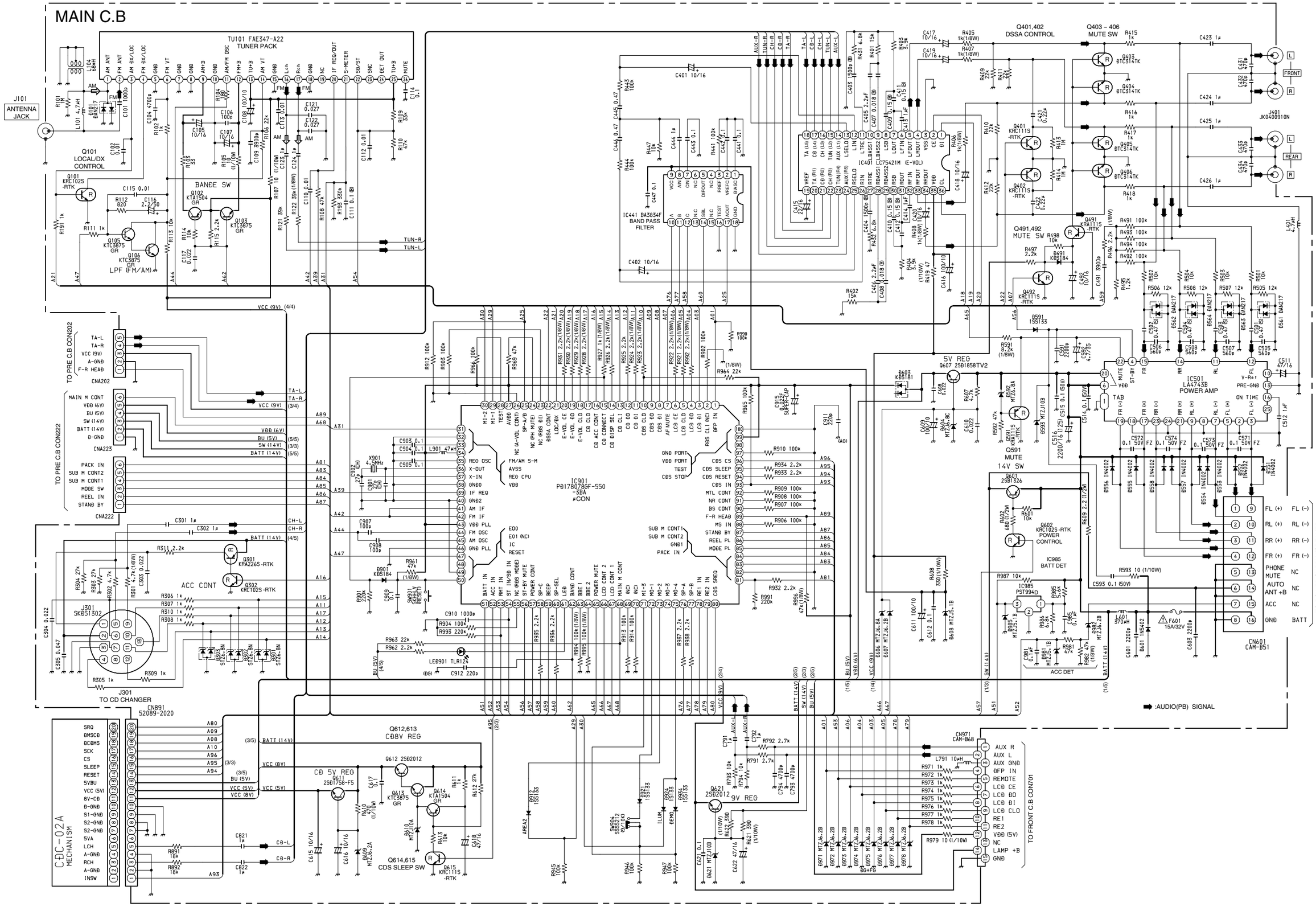
DTC314TK
KRA111S
KRA226S
KRC102S
KRC111S
KTA1504GR
KTC3875GR



2SD1758


MAIN C.B
J101
ANTENNA JACK
2
TU101
TU UNIT
FAE347-A22
16
17
Q102, 103
9,12
Q105, 106
6,14
3,4
Q101
BAND SW
LPF
LOC/DX CONT
TUN-L
TUN-R
BAND CONT.
EO0
LOC/DX
IC401
E-VOL
LC75421M
Q401,402
DSSA CONT
Q403~406
MUTE
J401
L
R
FRONT
L
R
REAR
IC441
BAND PASS FILTER
BA3834F
Q491,492
MUTE SW
CON601
IC501
POWER AMP
LA4743B
1~4, 9~12
7
16
DSSA CONT
AF MUTE
PRE C.B
CON202
CNA202
IC201
EQ.AMP
KIA2025P
TA-L
TA-R
IC221
DECK CONT
LB1641
CNA223
CON222
CNA222
ACC DET
D981,982,
R981,982,
C981
IC985
BATT DET
PST994D
IC901
μ-COM
μPD178078GF-550-3BA
BU (5V)
VDD (6V)
SW (5V)
SW (14V)
VCC (5V)
VCC (8V)
VCC (9V)
Q607
Q301,302
Q601,602
Q611
Q612~615
Q621
CONTROLLED DC REGULATOR
BATT (14V)
J301
(DIN-JACK)
TO CD CHANGER
CN891
CD UNIT
CDC-02A
CD-L
CD-R
AUX L
AUXR
CN971
LCD701
LCD DISPLAY
FUNC.KEY
SW701~718
LCD DRIV.
LC75884W
IC701
JOG DIAL
EC12E24504
J701
AUX IN
REMOTE CONTROL SENSOR
SBX1971-52
CON701
IC771
FRONT C.B

SCHEMATIC DIAGRAM - 1/3 (MAIN SECTION)



MAIN C.B

J401 — FRONT (L, R) — REAR (L, R)

J101 TO ANTENNA

CN601 TO POWER SUPPLY/ SPEAKER

F601 15A

J301 TO CD CHANGER

TO PTE C.B CON202

TO PRE C.B CON222

TO CDC-02AW2 CD MECHANISM CN891

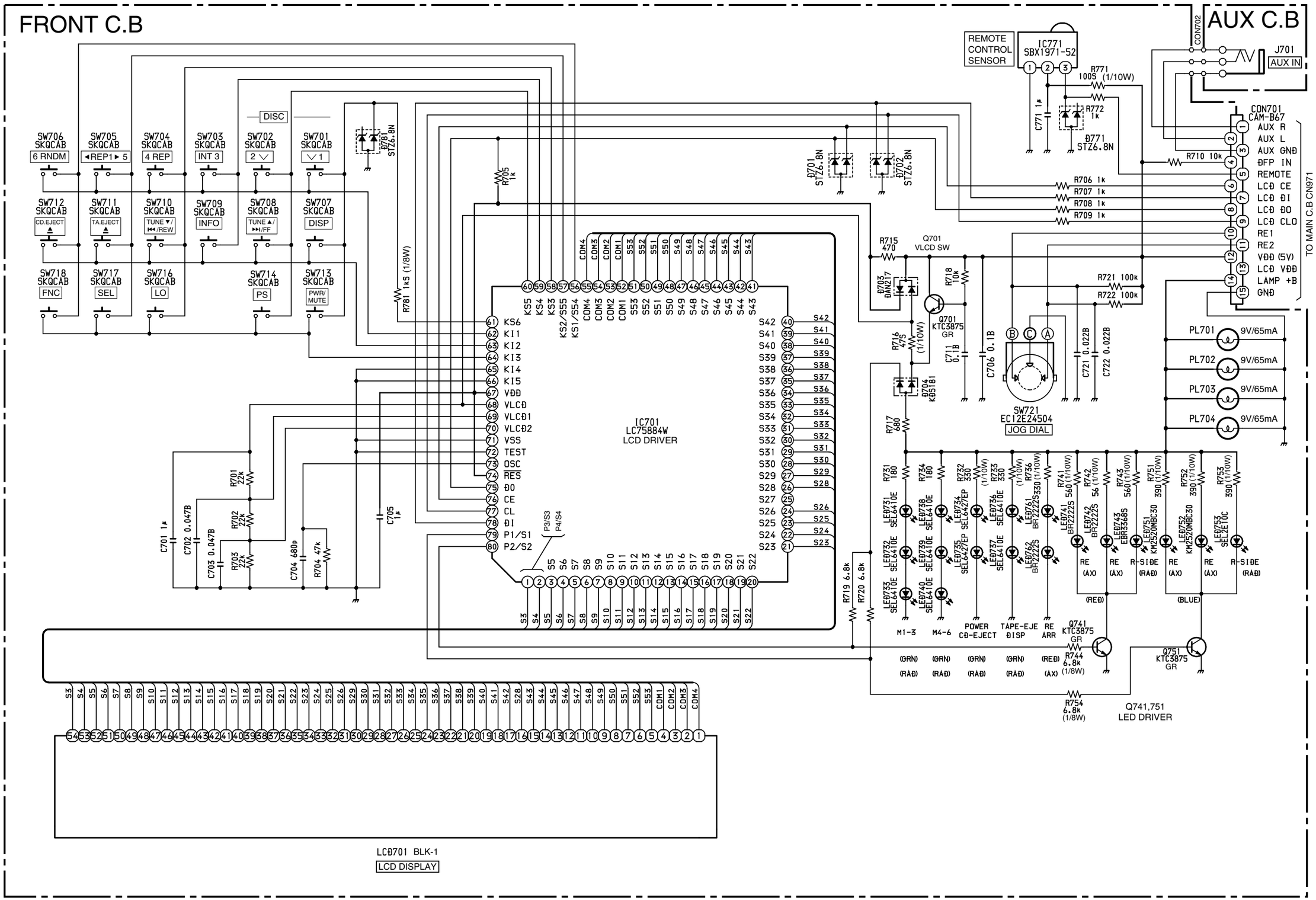
TO FRONT C.B CON701

SW904 10k ↔ 9k

LED901 SECURITY

SW901 RESET

SCHEMATIC DIAGRAM - 2/3 (FRONT SECTION)



FRONT C.B

CD CHANGER CONTROL

SW714 PS
SW716 LO
SW717 SEL
AUDIO CONTROL
SW708 TUNE ▲/ ▶▶I/FF
SW721 JOG DIAL
SW713 PWR/ MUTE
SW710 TUNE ▼/ I◀◀ /REW
SW709 INFO
SW718 FNC

SW712 CD.EJECT ▲

LCD701 LCD DISPLAY
PL701~704:LCD LIGHTING

CON701 TO MAIN C.B CN9714

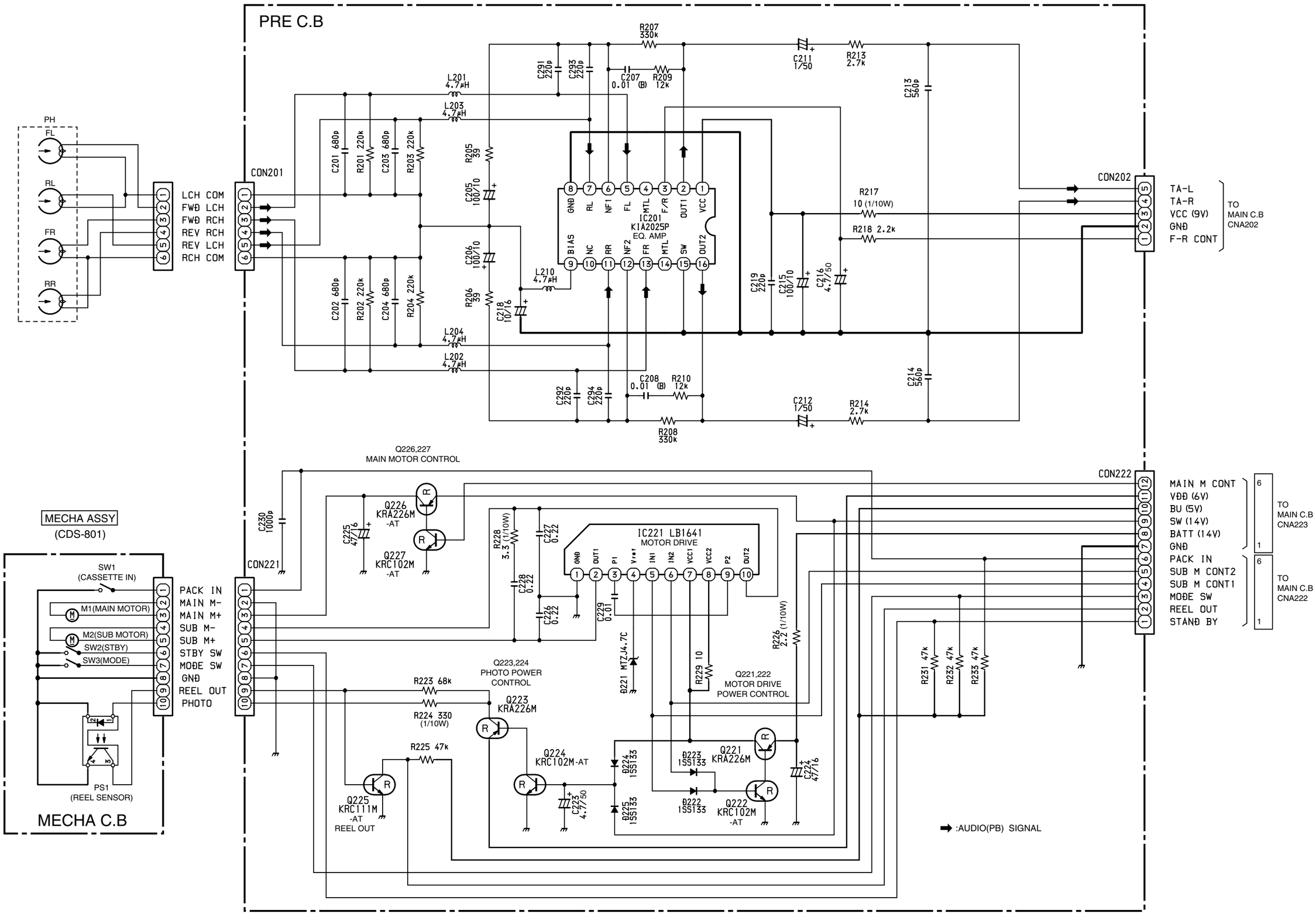
AUX C.B
RED
BRN
BLK
J701 AUX IN

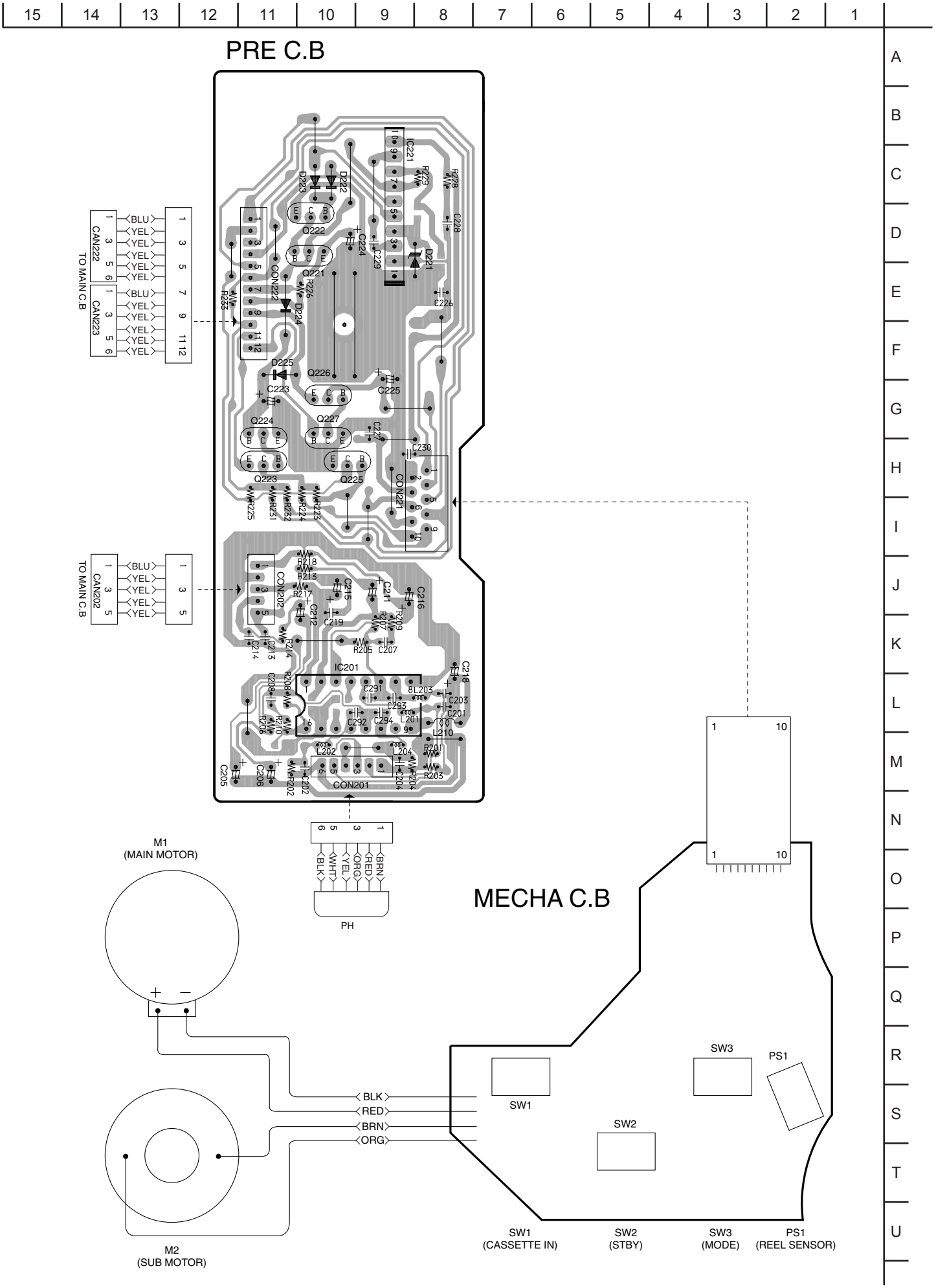
SW706 6 RNDM
SW711 TA.EJECT ▲
SW705 ◄REP1► 5
SW704 4 REP
SW703 INT 3
SW702 2 ∨
SW701 ∨1
SW707 DISP

IC771 REMOTE CONTROL SENSOR

LED731~740 : GRN ILLUMINATION
LED741~743,761,762 : RED ILLUMINATION
LED751~753 : BLU ILLUMINATION

SCHEMATIC DIAGRAM - 3/3 (PRE SECTION)




15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
A B C D E F G H I J K L M N O P Q R S T U
PRE C.B
TO MAIN C.B
CAN222
CAN223
CAN202
BLU
YEL
CON222
CON202
CON221
CON201
IC221
IC201
Q222
Q221
Q223
Q224
Q225
Q226
Q227
D221
D222
D223
D224
D225
M1
(MAIN MOTOR)
PH
BLK
WHT
YEL
ORG
RED
BRN
MECHA C.B
SW1
SW2
SW3
PS1
M2
(SUB MOTOR)
SW1
(CASSETTE IN)
SW2
(STBY)
SW3
(MODE)
PS1
(REEL SENSOR)

VOLTAGE CHART - 1/6

IC201

Mode / No.	FM	AM	TAPE	CD	AUX
1	9.49	9.49	9.52	9.49	9.49
2	2.99	2.99	2.98	2.99	2.99
3	5.36	5.36	5.33	5.36	5.36
4	0.42	0.42	0.75	0.42	0.42
5	2.97	2.97	2.98	2.97	2.97
6	2.97	2.97	2.98	2.97	2.97
7	2.97	2.97	2.98	2.97	2.97
8	0	0	0	0	0
9	2.97	2.97	2.98	2.97	2.97
10	0	0	0	0	0
11	2.97	2.97	2.98	2.97	2.97
12	2.97	2.97	2.98	2.97	2.97
13	2.97	2.97	2.98	2.97	2.97
14	0.30	0.30	0.30	0.30	0.30
15	0	0	0	0	0
16	2.98	2.98	2.99	2.98	2.98

IC221

Mode / No.	FM	AM	TAPE	CD	AUX
1	0	0	0.01	0	0
2	0	0	0.55	0	0
3	0	0	0.76	0	0
4	0	0	0.35	0	0
5	0	0	4.91	0	0
6	0	0	0	0	0
7	0.11	0.11	14.32	0.11	0.11
8	0.10	0.10	14.32	0.10	0.10
9	0	0	0.75	0	0
10	0	0	0.55	0	0

IC401

Mode / No.	FM	AM	TAPE	CD	AUX
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	4.08	4.08	4.08	4.08	4.08
5	4.08	4.08	4.08	4.08	4.08
6	4.04	4.04	4.04	4.04	4.04
7	4.07	4.07	4.07	4.07	4.07
8	0	0	0	0	0
9	4.08	4.08	4.08	4.08	4.08
10	4.06	4.06	4.06	4.06	4.06
11	4.05	4.05	4.05	4.05	4.05
12	4.05	4.05	4.05	4.05	4.05
13	4.07	4.07	4.07	4.07	4.07
14	4.05	4.05	4.05	4.05	4.05
15	4.05	4.05	4.05	4.05	4.05
16	4.05	4.05	4.05	4.05	4.05
17	4.05	4.05	4.05	4.05	4.05
18	4.05	4.05	4.05	4.05	4.05
19	4.07	4.07	4.07	4.07	4.07
20	4.05	4.05	4.05	4.05	4.05
21	4.06	4.06	4.06	4.06	4.06
22	4.06	4.06	4.06	4.06	4.06
23	4.06	4.06	4.06	4.06	4.06
24	4.06	4.06	4.06	4.06	4.06
25	4.08	4.08	4.08	4.08	4.08
26	4.05	4.05	4.05	4.05	4.05
27	4.05	4.05	4.05	4.05	4.05
28	4.05	4.05	4.05	4.05	4.05
29	4.07	4.07	4.07	4.07	4.07
30	4.04	4.04	4.04	4.04	4.04
31	4.07	4.07	4.07	4.07	4.07
32	4.05	4.05	4.05	4.05	4.05
33	4.07	4.07	4.07	4.07	4.07
34	4.07	4.07	4.07	4.07	4.07
35	8.17	8.17	8.17	8.17	8.17
36	0	0	0	0	0

VOLTAGE CHART - 2/6

IC441

Mode / No.	FM	AM	TAPE	CD	AUX
1	2.53	2.53	2.53	2.53	2.53
2	1.53	1.53	1.53	1.53	1.53
3	2.55	2.55	2.55	2.55	2.55
4	0	0	0	0	0
5	2.55	2.55	2.55	2.55	2.55
6	0.01	0.01	0.01	0.01	0.01
7	2.53	2.53	2.53	2.53	2.53
8	2.53	2.53	2.53	2.53	2.53
9	5.01	5.01	5.01	5.01	5.01
10	0.11	0.11	0.11	0.11	0.11
11	0.11	0.11	0.11	0.11	0.11
12	0.11	0.11	0.11	0.11	0.11
13	0.01	0.01	0.01	0.01	0.01
14	0.11	0.11	0.11	0.11	0.11
15	0.01	0.01	0.01	0.01	0.01
16	0	0	0	0	0
17	0.01	0.01	0.01	0.01	0.01
18	0	0	0	0	0

IC501

Mode / No.	FM	AM	TAPE	CD	AUX
1	0	0	0	0	0
2	0	0	0	0	0
3	2.80	2.80	2.80	2.80	2.80
4	4.88	4.88	4.88	4.88	4.88
5	2.82	2.82	2.82	2.82	2.82
6	14.38	14.38	14.38	14.38	14.38
7	2.82	2.82	2.82	2.82	2.82
8	0	0	0	0	0
9	2.81	2.81	2.81	2.81	2.81
10	13.16	13.16	13.16	13.16	13.16
11	3.05	3.05	3.05	3.05	3.05
12	3.05	3.05	3.05	3.05	3.05
13	0	0	0	0	0
14	3.05	3.05	3.05	3.05	3.05
15	3.05	3.05	3.05	3.05	3.05
16	2.36	2.36	2.36	2.36	2.36
17	2.82	2.82	2.82	2.82	2.82
18	0	0	0	0	0
19	2.82	2.82	2.82	2.82	2.82
20	13.38	13.38	13.38	13.38	13.38
21	2.82	2.82	2.82	2.82	2.82
22	4.07	4.07	4.07	4.07	4.07
23	2.80	2.80	2.80	2.80	2.80
24	0	0	0	0	0
25	0.01	0.01	0.01	0.01	0.01

IC701

Mode / No.	FM	AM	TAPE	CD	AUX
1	3.03	3.03	3.03	3.03	3.03
2	3.03	3.03	3.03	3.03	3.03
3	3.03	3.03	3.03	3.03	3.03
4	3.03	3.03	3.03	3.03	3.03
5	3.03	3.03	3.03	3.03	3.03
6	3.03	3.03	3.03	3.03	3.03
7	3.03	3.03	3.03	3.03	3.03
8	3.03	3.03	3.03	3.03	3.03
9	3.03	3.03	3.03	3.03	3.03
10	3.03	3.03	3.03	3.03	3.03
11	3.03	3.03	3.03	3.03	3.03
12	3.03	3.03	3.03	3.03	3.03
13	3.03	3.03	3.03	3.03	3.03
14	3.03	3.03	3.03	3.03	3.03
15	3.03	3.03	3.03	3.03	3.03
16	3.03	3.03	3.03	3.03	3.03
17	3.03	3.03	3.03	3.03	3.03
18	3.03	3.03	3.03	3.03	3.03
19	3.03	3.03	3.03	3.03	3.03
20	3.03	3.03	3.03	3.03	3.03
21	3.03	3.03	3.03	3.03	3.03
22	3.03	3.03	3.03	3.03	3.03
23	3.03	3.03	3.03	3.03	3.03
24	3.03	3.03	3.03	3.03	3.03
25	3.03	3.03	3.03	3.03	3.03
26	3.03	3.03	3.03	3.03	3.03
27	3.03	3.03	3.03	3.03	3.03
28	3.03	3.03	3.03	3.03	3.03
29	3.03	3.03	3.03	3.03	3.03
30	3.03	3.03	3.03	3.03	3.03
31	3.03	3.03	3.03	3.03	3.03
32	3.03	3.03	3.03	3.03	3.03
33	3.03	3.03	3.03	3.03	3.03
34	3.03	3.03	3.03	3.03	3.03
35	3.03	3.03	3.03	3.03	3.03
36	3.03	3.03	3.03	3.03	3.03
37	3.03	3.03	3.03	3.03	3.03
38	3.03	3.03	3.03	3.03	3.03
39	3.03	3.03	3.03	3.03	3.03
40	3.03	3.03	3.03	3.03	3.03
41	3.03	3.03	3.03	3.03	3.03
42	3.03	3.03	3.03	3.03	3.03
43	3.03	3.03	3.03	3.03	3.03
44	3.03	3.03	3.03	3.03	3.03
45	3.03	3.03	3.03	3.03	3.03
46	3.03	3.03	3.03	3.03	3.03
47	3.03	3.03	3.03	3.03	3.03

VOLTAGE CHART - 3/6

IC701

Mode No.	FM	AM	TAPE	CD	AUX
48	3.03	3.03	3.03	3.03	3.03
49	3.03	3.03	3.03	3.03	3.03
50	3.03	3.03	3.03	3.03	3.03
51	3.03	3.03	3.03	3.03	3.03
52	3.03	3.03	3.03	3.03	3.03
53	3.03	3.03	3.03	3.03	3.03
54	3.03	3.03	3.03	3.03	3.03
55	3.03	3.03	3.03	3.03	3.03
56	6.01	6.01	6.01	6.01	6.01
57	6.01	6.01	6.01	6.01	6.01
58	6.01	6.01	6.01	6.01	6.01
59	6.01	6.01	6.01	6.01	6.01
60	6.01	6.01	6.01	6.01	6.01
61	6.01	6.01	6.01	6.01	6.01
62	0.11	0.11	0.11	0.11	0.11
63	0.11	0.11	0.11	0.11	0.11
64	0.11	0.11	0.11	0.11	0.11
65	0	0	0	0	0
66	0	0	0	0	0
67	5.29	5.29	5.29	5.29	5.29
68	6.01	6.01	6.01	6.01	6.01
69	3.98	3.98	3.98	3.98	3.98
70	2.07	2.07	2.07	2.07	2.07
71	0.12	0.12	0.12	0.12	0.12
72	0.12	0.12	0.12	0.12	0.12
73	3.88	3.88	3.88	3.88	3.88
74	5.29	5.29	5.29	5.29	5.29
75	5.29	5.29	5.29	5.29	5.29
76	0.50	0.50	0.50	0.50	0.50
77	5.36	5.36	5.36	5.36	5.36
78	0.05	0.05	0.05	0.05	0.05
79	5.96	5.96	5.96	5.96	5.96
80	0.17	0.17	0.17	0.17	0.17

IC771

Mode / No.	FM	AM	TAPE	CD	AUX
1	0	0	0	0	0
2	5.17	5.17	5.17	5.17	5.17
3	4.62	4.62	4.62	4.62	4.62

IC901

Mode No.	FM	AM	TAPE	CD	AUX
1	4.81	4.81	4.81	4.84	4.82
2	0	0	0	0	0
3	5.26	5.26	5.26	5.28	5.26
4	0.13	0.13	0.17	0.20	0.05
5	5.37	5.37	5.20	5.24	5.37
6	0.50	0.50	0.67	0.60	0.40
7	5.33	5.33	5.30	5.35	5.31
8	5.35	5.35	5.33	5.41	5.36
9	0	0	0	0	0
10	5.37	5.37	5.36	5.41	5.38
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	5.40	5.40	5.36	5.38	5.37
15	0	0	0	0.01	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	5.37	5.37	5.34	5.31	5.36
25	0.01	0.01	0.01	0.01	0.01
26	0	0	0	0	0
27	5.38	5.38	5.38	5.33	5.38
28	5.32	5.32	5.34	5.28	5.33
29	0	0	0	0	0
30	0	0	0	0	0
31	0.62	0.62	0.76	0.88	0.80
32	0	0	0	0	0
33	3.37	3.37	3.37	3.37	3.37
34	5.35	5.35	5.36	5.34	5.37
35	3.36	3.36	5.36	5.36	3.36
36	1.38	1.38	1.39	1.38	1.38
37	1.39	1.39	1.40	1.40	1.40
38	0	0	0	0	0
39	0	0	0	0	0
40	0	0	0	0	0
41	0	0	0	0	0
42	0	0	0	0	0
43	5.36	5.36	5.35	5.35	5.35
44	2.79	0	0	0	0
45	0	2.73	0	0	0
46	0	0	0	0	0
47	1.09	1.07	0	0	0

VOLTAGE CHART - 4/6

IC901

Mode / No.	FM	AM	TAPE	CD	AUX
48	0.15	0.10	0	0	0
49	0	0	0	0	0
50	5.33	5.33	5.34	5.34	5.34
51	4.63	4.63	4.63	4.63	4.63
52	3.79	3.79	3.79	3.79	3.79
53	4.56	4.56	4.57	4.54	4.57
54	5.15	5.08	5.15	5.14	5.14
55	0	0.01	0	0	0
56	5.30	5.30	5.29	5.25	5.29
57	5.28	5.28	5.26	5.27	5.26
58	0.01	0.01	0.01	0.01	0.01
59	0.01	0.01	0.01	0.01	0.01
60	0.01	0.02	0.01	0.01	0.01
61	3.87	3.87	3.84	3.85	3.87
62	9.30	0.73	9.30	9.30	9.30
63	0.01	0.02	0.01	0.01	0.01
64	0.01	0.01	0.01	0.01	0.01
65	4.06	4.06	4.06	4.06	4.06
66	0.20	0.20	0.20	0.20	0.20
67	2.41	2.41	2.41	2.41	2.41
68	0.04	0.05	2.14	0.04	0.04
69	0	0	0	0	0
70	0.01	0.01	0.01	0.01	0.01
71	0	0	0	0	0
72	0.01	0.01	0.01	0.01	0.01
73	0.01	0.01	0.01	0.01	0.01
74	0.01	0.01	0.01	0.01	0.01
75	0.01	0.01	0.01	0.01	0.01
76	0.01	0.01	0.01	0.01	0.01
77	0.01	0.01	0.01	0.01	0.01
78	5.06	5.06	5.06	5.06	5.06
79	5.04	5.04	5.03	5.03	5.03
80	5.35	5.35	5.29	5.38	5.35
81	4.36	4.36	4.36	4.36	4.36
82	0	0	0	0	0
83	4.91	4.91	4.91	4.91	4.91
84	4.91	4.91	4.91	4.93	4.91
85	5.35	5.35	0.01	5.35	5.35
86	5.33	5.33	2.50	5.30	0.02
87	0.01	0.01	0.01	0.01	0.01
88	0	0	0	0	0
89	5.33	5.33	5.33	5.35	5.35
90	0	0	0	0	0
91	0	0	0	0	0
92	0	0	0	0	0
93	0.01	0.01	0.01	0.04	0.01
94	5.36	5.36	5.36	5.32	5.36
95	5.30	5.30	5.30	5.32	5.30
96	5.35	5.35	5.36	5.37	5.36
97	0	0	0	0	0
98	5.36	5.36	0	0	0
99	5.38	5.38	5.38	5.38	5.38
100	0	0	0	0	0

IC985

Mode / No.	FM	AM	TAPE	CD	AUX
1	6.60	6.60	6.60	6.60	6.60
2	0	0	0	0	0
3	4.63	4.63	4.63	4.63	4.63

VOLTAGE CHART - 5/6

No. \ Mode		FM	AM	TAPE	CD	AUX
Q101	E	0	0	0	0	0
	C	7.88	0.40	7.88	7.88	7.88
	B	0	0	0	0	0
Q102	E	9.56	9.55	9.55	9.55	9.55
	C	0.20	9.47	0.15	0.17	0.17
	B	9.28	8.82	9.28	9.28	9.28
Q103	E	8.56	0.14	8.55	8.55	8.55
	C	9.56	9.55	9.55	9.55	9.55
	B	9.28	0.73	9.27	9.27	9.27
Q105	E	0.62	0.61	0.07	0.07	0.07
	C	1.30	2.38	9.53	9.53	9.53
	B	1.09	1.08	0	0	0
Q106	E	0	0	0	0	0
	C	1.30	2.38	9.53	9.53	9.53
	B	0.62	0.61	0.01	0	0
Q221	E	14.39	14.39	14.33	14.39	14.39
	C	0.07	0.07	14.31	0.07	0.07
	B	14.38	14.38	0.06	14.38	14.38
Q222	E	0	0	0	0	0
	C	14.37	14.37	0.06	14.37	14.37
	B	0	0	4.39	0	0
Q223	E	5.64	5.64	6.08	5.64	5.64
	C	0.30	0.30	6.05	0.30	0.30
	B	5.63	5.63	0.02	5.63	5.63
Q224	E	0	0	0	0	0
	C	5.63	5.63	0.02	5.63	5.63
	B	0	0	13.76	0	0
Q225	E	0	0	0	0	0
	C	4.89	4.89	1.90	4.89	4.89
	B	1.16	1.16	0.60	1.16	1.16
Q226	E	14.22	14.22	14.35	14.22	14.22
	C	0.81	0.81	14.31	0.81	0.81
	B	14.21	14.21	0.10	14.21	14.21
Q227	E	0	0	0	0	0
	C	14.21	14.21	0.10	14.21	14.21
	B	0.04	0.04	2.14	0.04	0.04
Q301	E	14.29	14.29	14.29	14.29	14.29
	C	0	0	0	0	0
	B	14.37	14.38	14.36	14.30	14.38
Q302	E	0	0	0	0	0
	C	14.36	14.36	14.36	14.36	14.36
	B	0	0	0	0.02	0
Q401	E	0	0	0	0	0
	C	0	0	0	0	0
	B	0	0	0	0	0

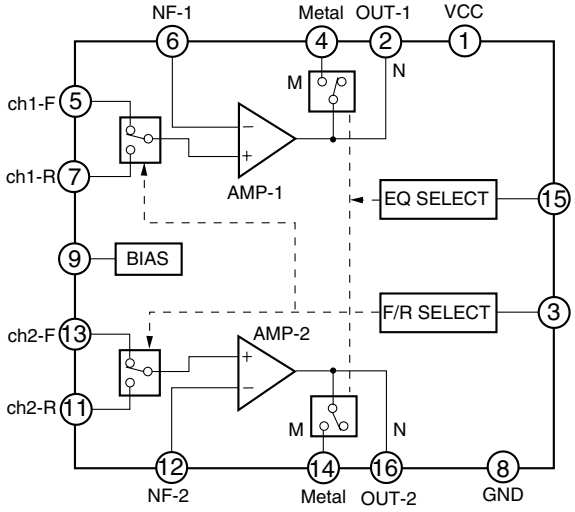
No. \ Mode		FM	AM	TAPE	CD	AUX
Q402	E	0	0	0	0	0
	C	0	0	0	0	0
	B	0	0	0	0	0
Q403	E	0	0	0	0	0
	C	0	0	0	0	0
	B	0	0	0	0	0
Q404	E	0	0	0	0	0
	C	0	0	0	0	0
	B	0	0	0	0	0
Q405	E	0	0	0	0	0
	C	0	0	0	0	0
	B	0	0	0	0	0
Q406	E	0	0	0	0	0
	C	0	0	0	0	0
	B	0	0	0	0	0
Q491	E	0.03	0	0	0	0
	C	0	0	0	0	0
	B	0	0	0	0	0
Q492	E	0	0	0	0	0
	C	0.03	0.03	0.03	0.03	0.03
	B	5.26	5.26	5.26	5.26	5.26
Q591	E	4.05	4.05	4.05	4.05	4.05
	C	0	0	0	0	0
	B	8.02	8.02	8.02	8.02	8.02
Q601	E	14.40	14.40	14.40	14.40	14.40
	C	14.39	14.39	14.39	14.39	14.39
	B	13.68	13.68	13.68	13.68	13.68
Q602	E	0	0	0	0	0
	C	0.13	0.13	0.13	0.13	0.13
	B	5.27	5.27	5.27	5.27	5.27
Q611	E	5.65	5.65	5.65	5.35	5.65
	C	8.45	8.45	8.45	8.24	8.45
	B	5.98	5.98	5.98	6.01	5.98
Q612	E	8.45	8.45	8.45	8.28	8.45
	C	14.40	14.40	14.40	8.28	14.40
	B	8.99	8.99	8.99	8.94	8.99
Q613	E	8.99	8.99	8.99	8.95	8.99
	C	14.39	14.39	14.39	14.32	14.39
	B	9.50	9.50	9.50	9.54	9.50
Q614	E	9.53	9.53	9.53	9.57	9.53
	C	9.50	9.50	9.50	1.61	9.50
	B	8.84	8.84	8.84	8.02	8.84
Q615	E	0	0	0	0	0
	C	0.01	0.01	0.01	0.01	0.01
	B	4.41	4.41	4.41	4.41	4.41

VOLTAGE CHART - 6/6

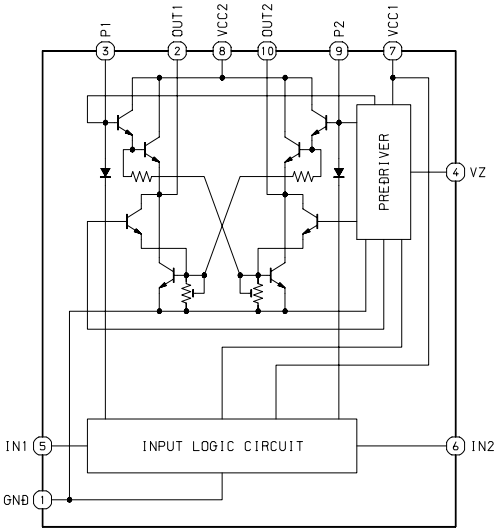
No. \ Mode		FM	AM	TAPE	CD	AUX
Q621	E	9.58	9.58	9.58	9.58	9.58
	C	14.38	14.38	14.38	14.38	14.38
	B	10.27	10.27	10.27	10.27	10.27
Q701	E	6.13	6.13	6.13	6.13	6.13
	C	5.36	5.36	5.36	5.36	5.36
	B	5.36	5.36	5.36	5.36	5.36
Q741	E	0.14	0.14	0.14	0.14	0.14
	C	8.20	8.20	8.20	8.20	8.20
	B	0.16	0.16	0.16	0.16	0.16
Q751	E	0.14	0.14	0.14	0.14	0.14
	C	0.26	0.26	0.26	0.26	0.26
	B	0.87	0.87	0.87	0.87	0.87

IC BLOCK DIAGRAM - 1/2

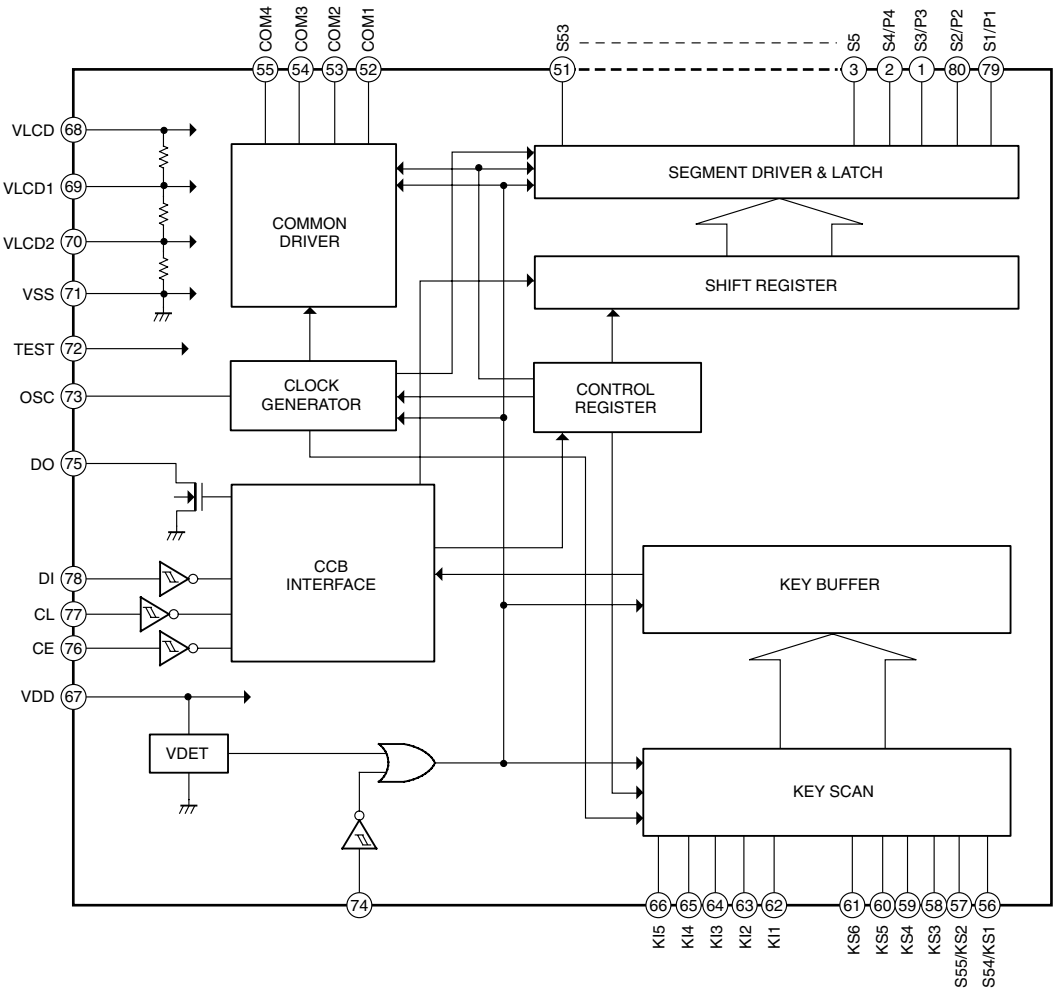
IC, KIA2025P



IC, LB1641

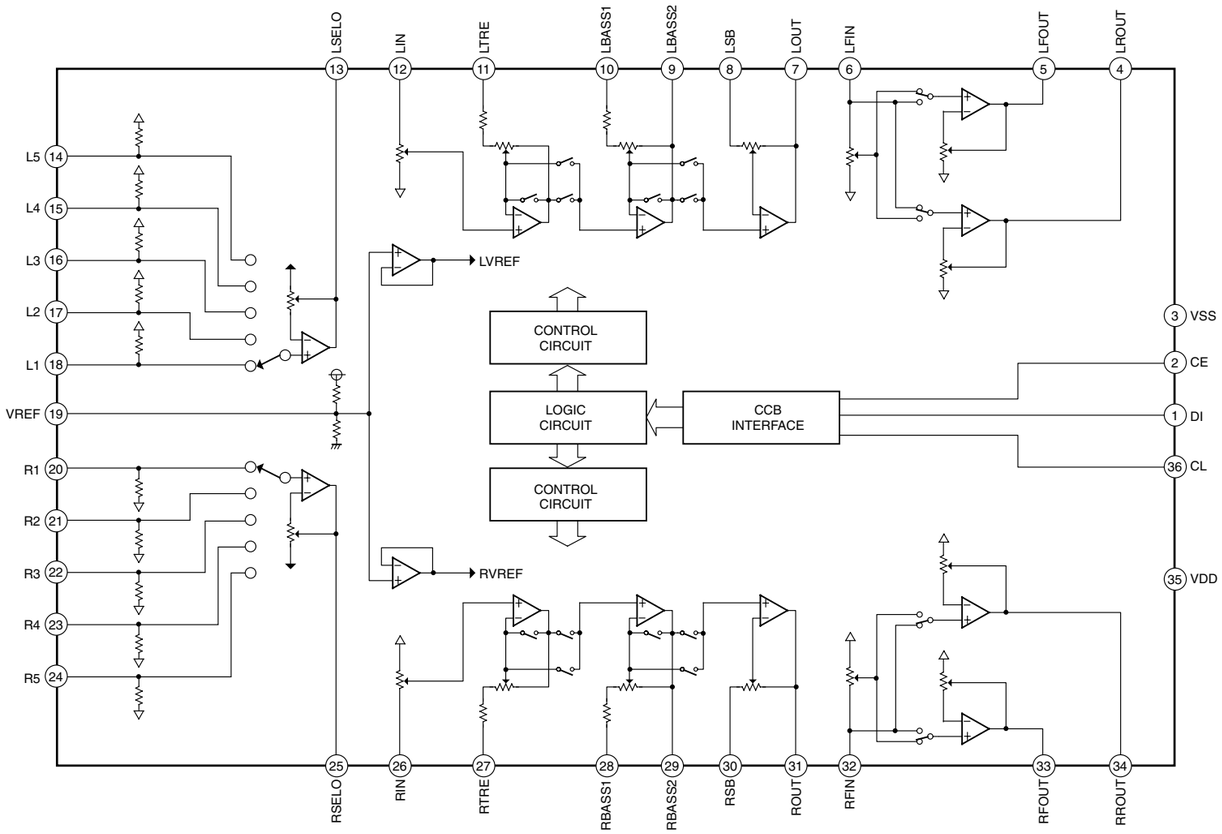


IC, LC75884W

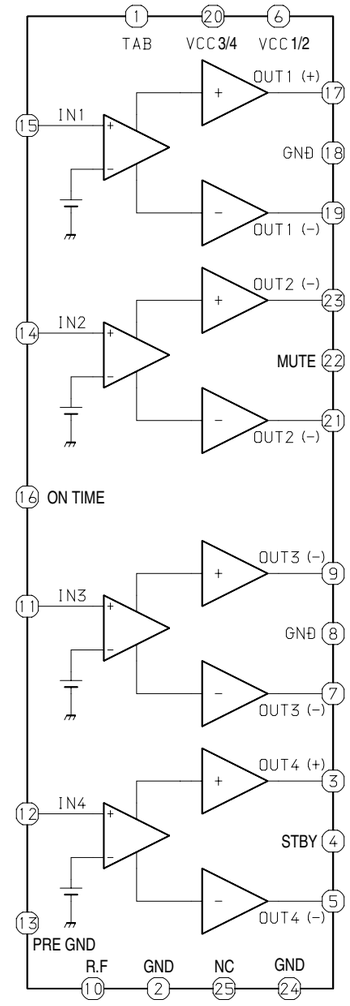


IC BLOCK DIAGRAM - 2/2

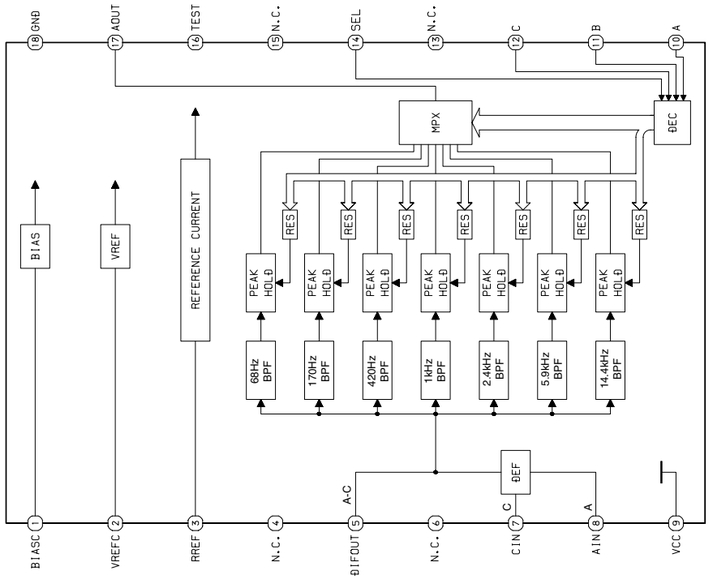
IC, LC75421M



IC, LA4743B



IC, BA3834F



IC DESCRIPTION -1/1 (μPD178078GF-550-3BA) -1/3

Pin No.	Pin Name	I/O	Description
1	DEP IN	I	DEP detect input
2	RDS CLI	I	RDS clock input
3	LCD DI	I	LCD data signal input
4	LCD DO	O	LCD data signal output
5	LCD CLO	O	LCD sync clock signal output
6	LCD CE	O	LCD driver CE signal output
7	AF MUTE	O	AUDIO MUTE control signal output
8	CDS DI	I	CDS data signal input
9	CDS DO	O	CDS data signal output
10	CDS CLO	O	CDS sync clock signal output
11	CD DI	I	Receive data signal input
12	CD DO	O	Send data signal output
13	CD CLI	I	Receive sync clock signal input
14	CD DISP SEL	O	Outputs signal for timing of communications with CD changer
15	CD CONNECT	I	Check for connections with CD changer
16	CD ACC CONT	O	CD changer ACC signal output
17	CD CLO	O	Send sync clock signal output
18	EVOL CLO	O	Clock output to electronic VR
19	EVOL DO	O	Data output to electronic VR
20	EVOL CE	O	CE output to electronic VR
21	LOC/DX	O	LOC/DX switching output during radio seek
22	DSSA CONT	O	Outputs 'H' only during DSSA L/R operation
23	RDS-DI	I	RDS data input.
24	PHONE MUTE	I	MUTE control from exterior.
25	BA3834 A/D	I	A/D input from spectrum analyzer (BA3834F)
26	NC	–	Connect to ground
27	AVDD	–	Power supply
28	TEST	–	CD test mode
29	MI1	I	Diode matrix input for initial setting
30	MI2	I	Diode matrix input for initial setting
31	FM/AM METER	I	RDS AF signal input and FM/AM S meter signal input
32	AVSS	–	Ground
33	REG CPU	–	CPU power regulator
34	VDD	–	Power supply
35	REG OSC	–	Regulator for oscillator circuit
36	X2	O	System clock oscillator output
37	X1	I	System clock oscillator input
38	GND	–	Ground
39	IF REQ	O	IF count signal request output
40	GND	–	Ground
41	AM IF	I	AM IF count signal input

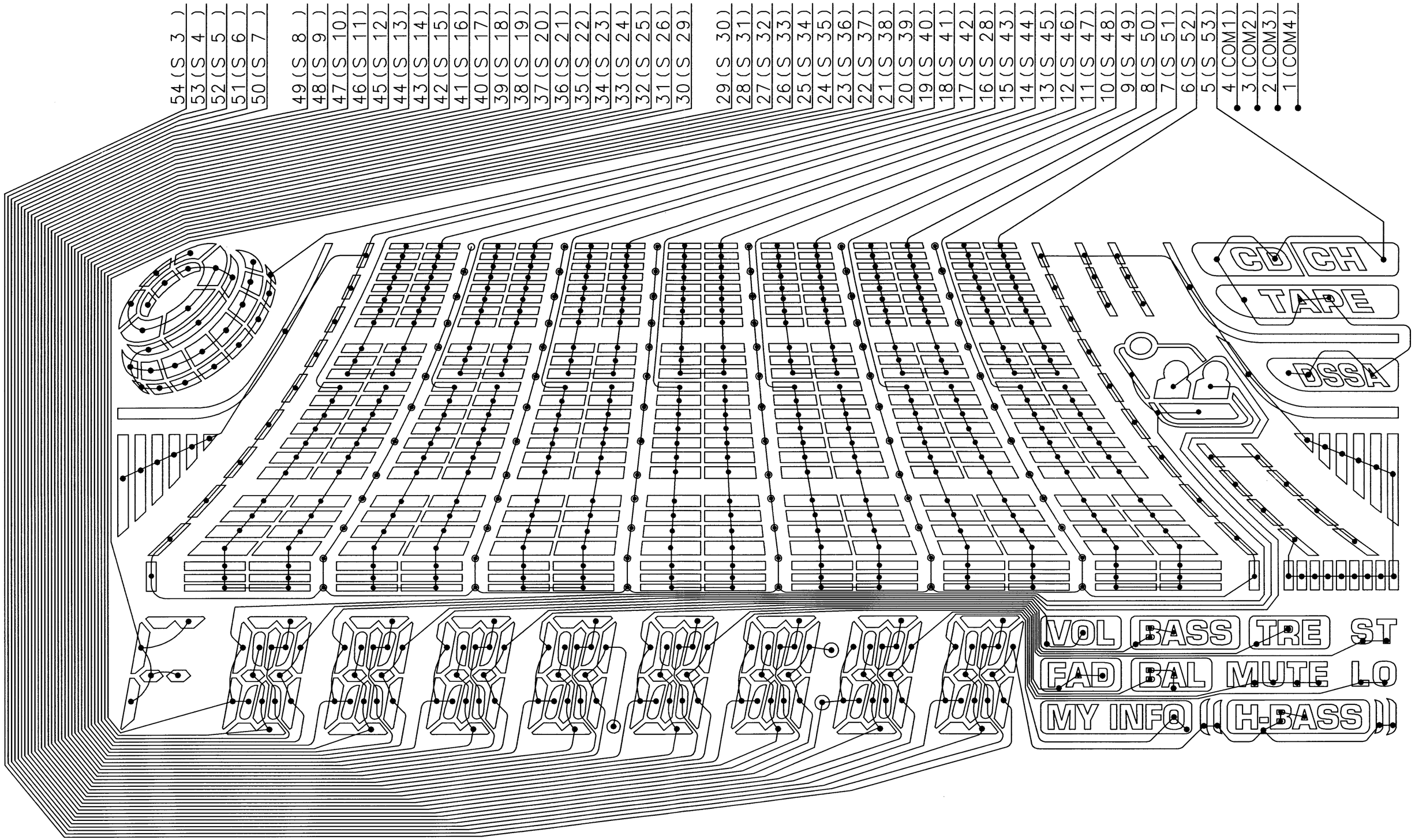
Pin No.	Pin Name	I/O	Description
42	FM IT	I	FM IF count signal input
43	VDD PLL	–	Power supply for PLL
44	FM OSC	I	FM local oscillation input
45	AM OSC	I	AM local oscillation input
46	GND PLL	–	Ground for PLL
47	EO0	O	Error output from charge pump
48	EO1	–	Error output from charge pump
49	IC	–	Connect to ground
50	RESET	I	System reset
51	BATT IN	I	Battery detect input
52	ACC IN	I	ACC (Accessory power supply) ON/OFF input
53	RMT IN	I	Remote control input
54	ST-IND/SD IN	I	Stereo signal detect/SD signal detect input
55	RDS MODE	O	Output “H” during RDS AF operation
56	ST-BY MUTE	O	Standby/muting control signal output
57	POWER CONT	O	Power control signal output
58	BA3834A SPC	O	C-terminal control signal for spectrum analyzer
59	BEEP	O	Beep output
60	BA3834A SEL	O	BA3834A select signal output
61	LED	O	Security LED blinking output
62	BAND CONT	O	FM/AM BAND switching output
63	BBE-1	O	BBE control signal output 1 (Not used)
64	BBE-2	O	BBE control signal output 2 (Not used)
65	POWER MUTE	O	POWER IC MUTE control
66	LCD CONT 2	O	Contrast control 2
67	LCD CONT 1	O	Contrast control 1
68	MAIN MT CONT	O	Main motor control signal
69	NC	–	Not connected
70	NC	–	Not connected
71	MI-3	I	Diode matrix input for initial setting
72	MO-1	O	Diode matrix output for initial setting
73	MO-2	O	Diode matrix output for initial setting
74	MO-3	O	Diode matrix output for initial setting
75	MO-4	O	Diode matrix output for initial setting
76	SPA	O	A-terminal control signal for spectrum analyzer
77	SPB	O	B-terminal control signal for spectrum analyzer
78	RE1 IN	I	Rotary encoder signal input 1
79	RE2 IN	I	Rotary encoder signal input 2
80	CSD S. REQ	I	CSD S.REQ signal input
81	PACK IN	I	Cassette insertion detection input
82	GND	–	GND

IC DESCRIPTION -1/1 (µPD178078GF-550-3BA) -3/3

Pin No.	Pin Name	I/O	Description
83	SUB MT CONT 2	O	Sub motor control signal 2
84	SUB MT CONT 1	O	Sub motor control signal 1
85	MODE PL	I	Mode pulse detection signal input
86	REEL PL	I	Reel pulse detection signal input
87	STAND BY	I	Mechanism standby position detection signal input
88	MS-IN	I	Inter-track detection signal input
89	F/R HEAD	O	Head forward/reverse direction switching signal output
90	BS CONT	O	Blank skip presence/absence switching signal output
91	NR CONT	O	Dolby ON/OFF control signal output
92	MTL CONT	O	Metal tape ON/OFF control signal output
93	CDS IN	I	Disc insertion status detection input
94	CDS RESET	O	CDS RESET signal output
95	CDS SLEEP	O	CDS SLEEP signal output
96	CDS CS	O	CDS CS signal output
97	CDS STOP	I	CDS STOP signal input
98	TEST	–	CDS test mode
99	VDD PORT	–	Power supply
100	GND	–	Ground

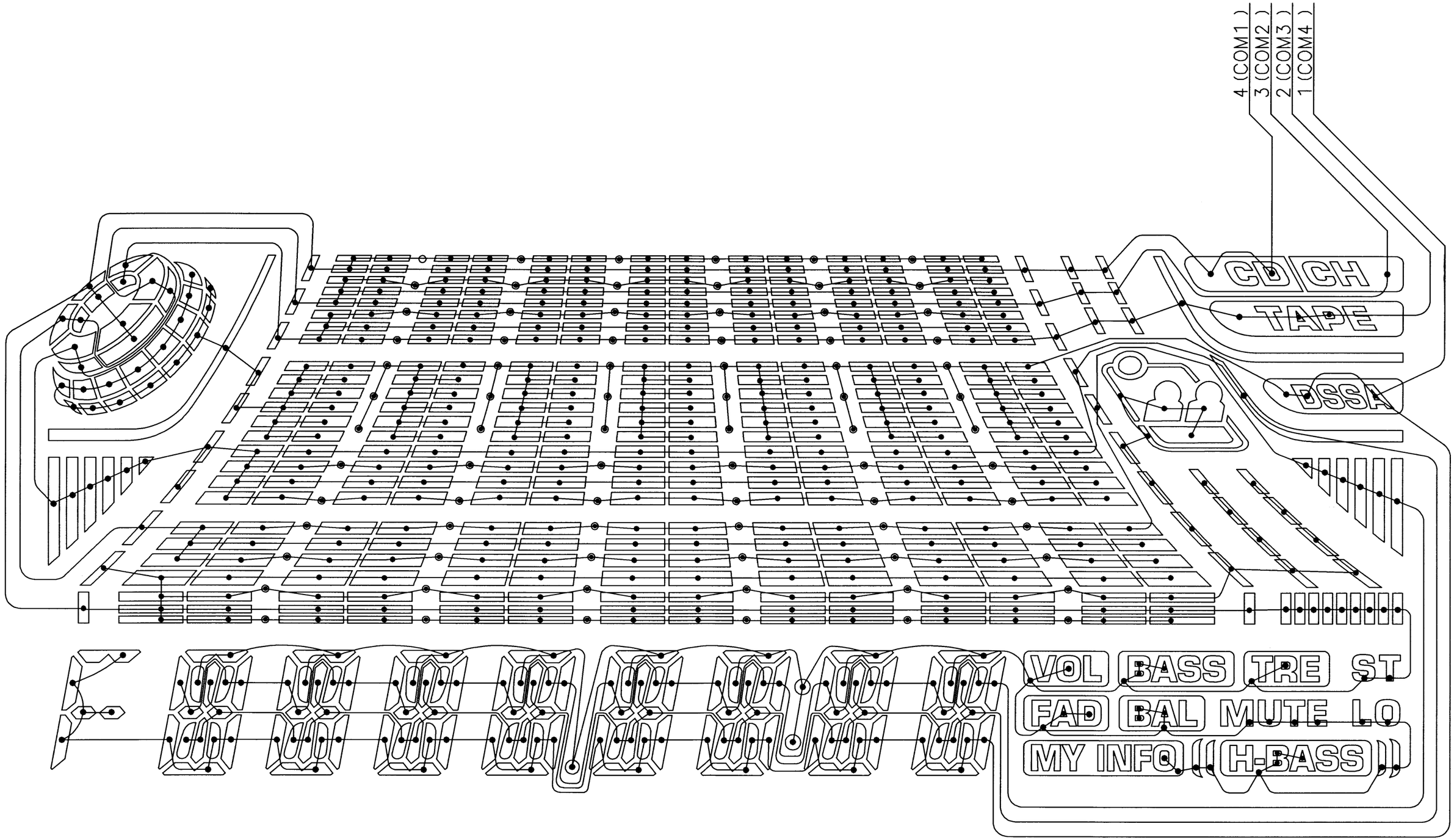
LCD DISPLAY -1/3

SEGMENT



LCD DISPLAY -2/3

COMMON



LCD DISPLAY- 3/3

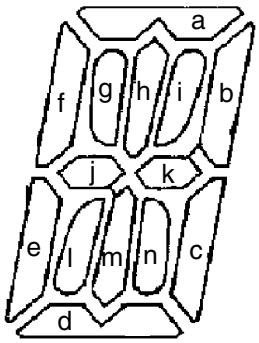
LCD Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13
COM1	COM1	—	—	—	CD	Bar8	Bar1	Bar18	Bar11	Bar28	Bar21	Bar38	Bar31
COM2	—	COM2	—	—	CH	Bar7	Bar2	Bar17	Bar12	Bar27	Bar22	Bar37	Bar32
COM3	—	—	COM3	—	TAPE	Bar6	Bar3	Bar16	Bar13	Bar26	Bar23	Bar36	Bar33
COM4	—	—	—	COM4	DSSA	Bar5	Bar4	Bar15	Bar14	Bar25	Bar24	Bar35	Bar34

LCD Pin No.	14	15	16	17	18	19	20	21	22	23	24	25	26
COM1	Bar48	Bar41	Bar58	Bar51	Bar68	Bar61	C1	MARK A,D	—	MARK	2g	2a	MARK
COM2	Bar47	Bar42	Bar57	Bar52	Bar67	Bar62	C2	MARK C,F	—	2b	2j	2i	2b
COM3	Bar46	Bar43	Bar56	Bar53	Bar66	Bar63	C3	MARK B,E	—	2l	2m	2h	2k
COM4	Bar45	Bar44	Bar55	Bar54	Bar65	Bar64	C4	MARK G	1a1e1f1j1k	2e	2d	2n	2c

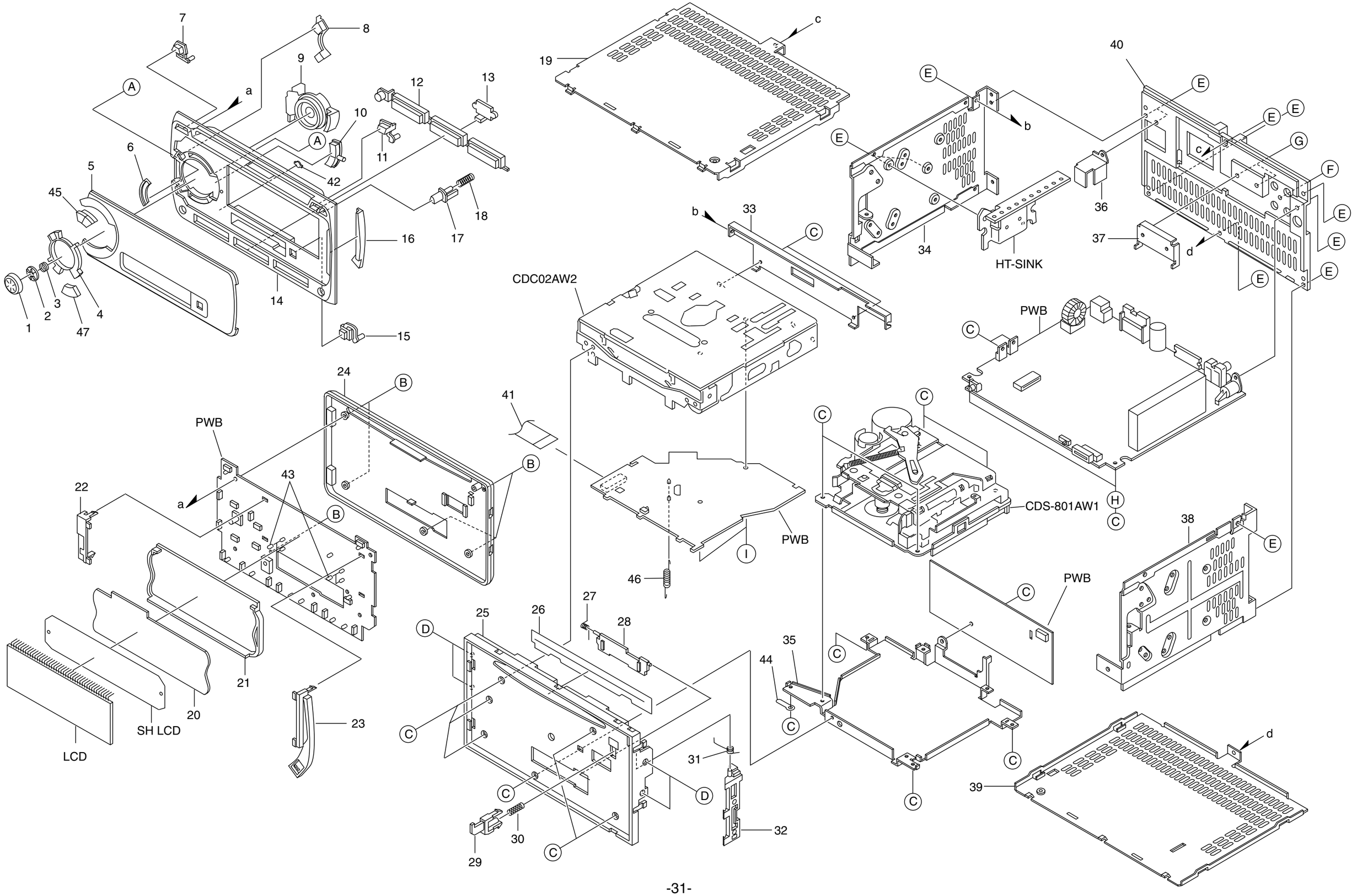
LCD Pin No.	27	28	29	30	31	32	33	34	35	36	37	38	39
COM1	MARK	3g	3a	VOL	BASS	4g	4a	TRE	ST	5g	5a	DOT1	FAD
COM2	3f	3j	3i	3b	4f	4j	4i	4b	5f	5j	5i	5b	6f
COM3	3l	3m	3h	3k	4l	4m	4h	4k	5l	5m	5h	5k	6l
COM4	3e	3d	3n	3c	4e	4d	4n	4c	5e	5d	5n	5c	6e

LCD Pin No.	40	41	42	43	44	45	46	47	48	49	50	51	52
COM1	6g	6a	BAL	MUTE	7g	7a	DOT2	DOT3	8g	8a	LO	MY INFO	9g
COM2	6j	6i	6b	7f	7j	7i	7b	8f	8j	8i	8b	9f	9j
COM3	6m	6h	6k	7l	7m	7h	7k	8l	8m	8h	8k	9l	9m
COM4	6d	6n	6c	7e	7d	7n	7c	8e	8d	8n	8c	9e	9d

LCD Pin No.	53	54
COM1	9a	H-BASS
COM2	9i	9b
COM3	9h	9k
COM4	9n	9c



MECHANICAL EXPLODED VIEW - 1/1



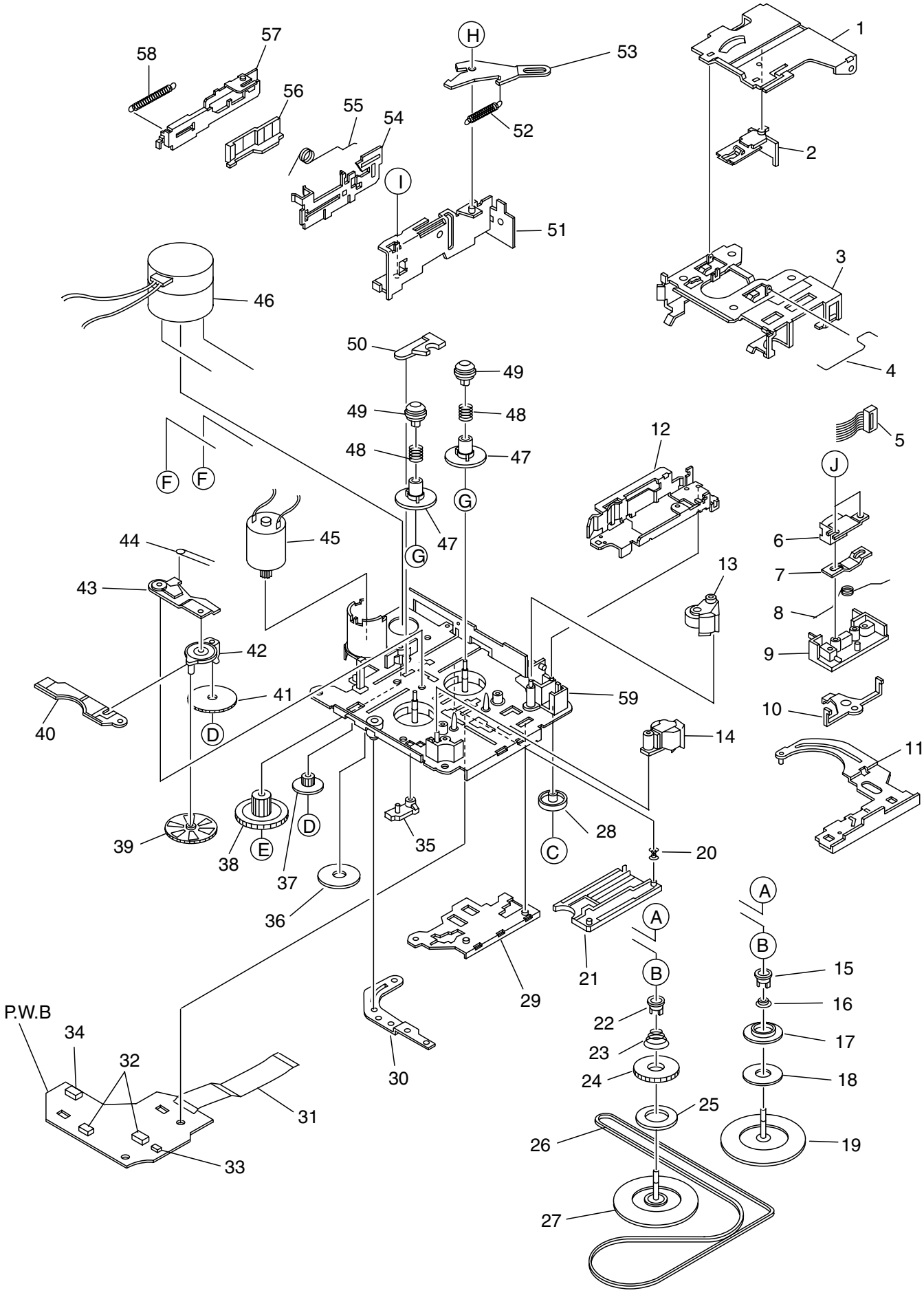
MECHANICAL MAIN PARTS LIST 1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-KL1-020-010		KNOB,RTRY BLK
2	8B-KT9-008-010		POINTER,RTRY
3	8A-KC7-220-010		SPR-C,ROTARY -AC
4	8B-KL1-019-010		CABI,RING 2DIN
5	8B-KL1-004-010		WINDOW,LCD 2DIN
6	8B-KT9-005-010		LENS,ARC
7	8B-KL1-011-010		KEY,PWR/MUTE 2DIN
8	8B-KT9-009-010		BTN,ARC
9	8B-KT9-202-010		LENS,L
10	8B-KT9-010-010		BTN,UP/DN
11	8B-KL1-010-010		KEY,EJECT CD 2DIN
12	8B-KL1-005-010		BTN,PRESET 2DIN
13	8B-KL1-014-010		LENS,TAPE 2DIN
14	8B-KL1-001-010		CABI,FRONT 2DIN
15	8B-KL1-009-010		KEY,EJECT TP 2DIN
16	8B-KL1-012-010		LENS,SIDE R 2DIN
17	8B-KL1-008-010		BTN,DETACH 2DIN
18	8Z-KC2-223-010		SPR-C,DETACH -C2
19	8Z-KC1-211-010		COVER, TOP -C
20	8B-KL1-013-010		LENS,LCD 2DIN
21	8B-KL1-210-010		CASE,LCD 2DIN
22	8B-KL1-212-010		HLDR,LCD-L 2DIN
23	8B-KL1-213-010		HLDR,LCD-R 2DIN
24	8B-KL1-002-010		CABI,REAR 2DIN
25	8B-KL1-003-010		CABI,BASE 2DIN
26	8B-KL1-208-010		SH,CD 2DIN
27	8Z-KT1-244-010		SPR-T,DOOR Z
28	8B-KL1-016-010		DOOR,CASS 2DIN
29	8Z-KC2-203-210		LEVER,DFP HOOK -C2
30	8Z-KC2-221-010		SPR-C,DETACH HOOK-C2
31	8Z-KC2-222-010		SPR-T,DETACH LOCK-C2
32	8B-KL1-211-010		HLDR,LEVER LOCK 2
33	8B-KCG-245-010		HLDR,MECHA -G
34	8B-KL1-201-010		CHAS,SIDE-L 2DIN
35	8B-KL1-204-010		HLDR,DECK/TAPE 2DIN
36	8A-KC7-225-010		HLDR,CD-AC
37	8A-KC7-224-010		HLDR,P-IC -AC
38	8B-KL1-202-010		CHAS,SIDE-R 2DIN
39	8Z-KC1-256-010		COVER, BOTTOM RDS
40	8B-KL1-206-010		PANEL,HI-SINK 2DIN
41	88-KC4-641-010		FF-CABLE, 20P 1.0 90MM
42	8B-KL1-214-010		LENS,REMO 2DIN
43	8B-KL1-215-010		CAP, LAMP BLUE 2DIN
44	87-064-185-010		HLDR,WIRE PVC 0.5
45	8B-KL1-015-010		BTN,SEESAW 2DIN
46	8A-KC7-255-010		SPR-C,WIRE
47	8B-KT9-012-010		BTN,FAN
A	87-B10-334-010		VTT+1.7-5 W/O
B	8Z-KC1-253-010		S-SCREW,PT 2*8 BH+ BLK
C	87-B10-216-010		U+2.6-4.0 ZINC BLK (BH M2.6)
D	8Z-KC1-251-010		S-SCREW,TH2.6-4.0-0.8
E	87-251-073-410		U+2.6-6
F	87-251-096-410		U+3-10
G	87-B10-259-010		UT2+3.0-10.0 W/O SLOT (BH TAP)
H	87-432-903-010		WTE,2.6
I	88-ZG5-317-010		S-SCREW,8ZG5S+2-4 W/O

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		

MECHANISM EXPLODED VIEW - 1/1 <CDS-801AW1>



MECHANISM MAIN PARTS LIST - 1/1 <CDS-801AW1>

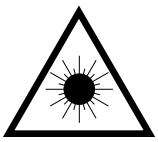
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	SX-080-110-130		CASSETTE HANGER ASSY
2	S1-080-120-250		CASSETTE CATCH
3	S1-080-110-120		CASSETTE HOLDER
4	S1-080-140-110		HOLDER STABILIZER SPG
5	S1-080-170-270		JOINT WIRE ASSY 6P-AW
6	S1-080-170-220		HEAD(P-5544-CD)
7	S1-080-110-090		HEAD SUPPORT SPG
8	S1-080-140-010		PINCH ARM SPG
9	S1-080-120-200		TAPE GUIDE
10	S1-080-110-050		PINCH SPG ARM
11	SX-080-110-020		SLIDE CHASSIS ASSY
12	S1-080-110-060		CASSETTE GUIDE
13	SX-080-120-210		PINCH ARM ASSY
14	SX-080-120-220		PINCH ARM R ASSY
15	S1-080-120-060		SPG HOLDER F
16	S1-080-140-020		TU SPG
17	S1-080-120-070		FRICTION GEAR PLAY
18	S1-080-150-020		FELT 7.5-18.5-1.0
19	S1-080-160-020		FLYWHEEL ASSY F
20	S1-080-130-050		RACK COLLAR
21	S1-080-120-180		MODE RACK
22	S1-080-120-300		SPG HOLDER R
23	S1-080-140-030		FF SPG
24	S1-080-120-080		FRICTION GEAR FF
25	S1-080-150-040		FELT 11-18.5-1.0
26	S1-080-150-010		BELT
27	S1-080-160-030		FLYWHEEL ASSY R
28	S1-010-120-560		IDLE PULLEY(A1)
29	S1-080-110-030		DIRECTION PLATE
30	S1-080-110-040		DIRECTION LINK
31	S1-080-170-110		FLAT CABLE 10P
32	S1-080-170-030		SW(ESE22MH1)
33	S1-080-170-240		PHOTO SENSOR(ON2170-QR FS)
34	S1-080-170-050		SW(SPPB 64)
35	S1-080-120-190		MODE SW ACTUATER
36	S1-080-120-050		REDUCTION GEAR B
37	S1-080-120-040		REDUCTION GEAR A
38	S1-080-120-090		MODE GEAR
39	S1-080-120-170		REFLECTOR GEAR
40	S1-080-120-150		GEAR BASE LINK
41	S1-080-120-160		TAKE UP GEAR
42	SX-080-120-030		GEAR BAES ASSY
43	S1-080-120-140		GEAR BASE ARM
44	S1-080-140-070		GEAR BASE SPG
45	SX-080-170-060		SUB MOTOR ASSY
46	SX-080-170-570		MAIN MOTOR ASSY
47	S1-080-120-100		REEL SPINDLE
48	S1-080-140-080		REEL DRIVER SPG
49	S1-080-120-110		REEL DRIVER
50	S1-080-120-240		RACK LINK
51	SX-080-110-080		SIDE BKT ASSY
52	S1-080-140-090		LOAD ARM SPG
53	S1-080-110-070		LOAD ARM
54	S1-080-110-110		EJECT CAM PLATE
55	S1-080-140-060		HOLDER CUSHION SPG
56	S1-080-120-230		LOAD RACK
57	SX-080-110-100		EJECT CAM LIMITER ASSY
58	S1-080-140-050		EJECT CAM PLATE SPG
59	SX-080-110-030		MAIN CHASSIS ASSY
A	S2-181-600-32E		LMW-S 1.6-3.2-0.35
B	S2-182-100-40D		PSW 2.1-4.0-0.25
C	S2-181-200-32D		PSW-S 1.2-3.2-0.25
D	S1-003-650-240		PSW-S(REEL B)1.5-3.2-0.25
E	S1-821-004-0D2		PSW-S 2.1-4.0-0.25
F	S2-103-200-25C		+SCREW,PLAIN M2-2.5
G	S1-080-150-050		REEL WASHER
H	S2-171-150-401		E-RING 1.5
I	S2-133-200-35P		S-TYPE PRECISION SCREW M2-3.5
J	S1-080-150-030		AZIMUTH SCREW

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

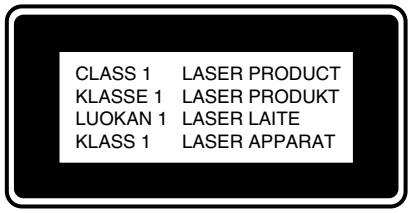
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

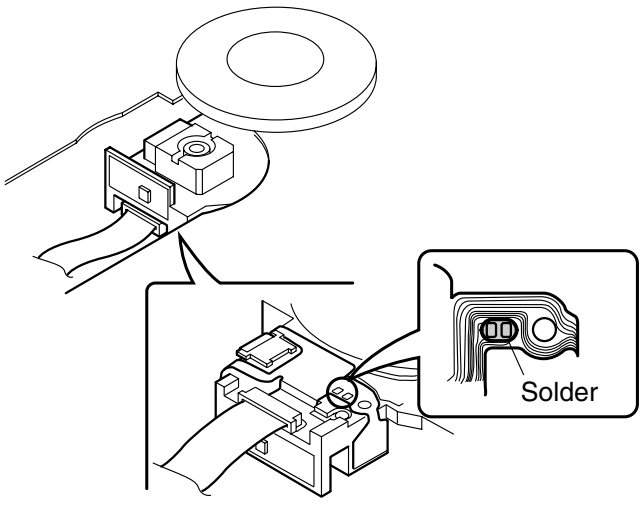


Precaution to replace Optical block (PICK720)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

PICK-UP ASSY. P.C.B



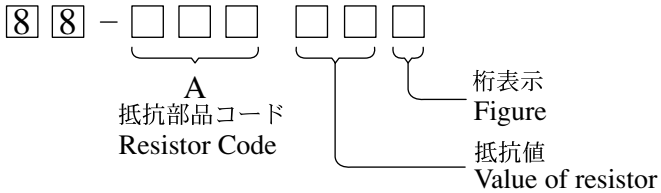
ELECTRICAL MAIN PARTS LIST -1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-467-040		C-IC,CXA2581N
	87-A21-533-030		C-IC,CXD2587Q
	87-A21-952-030		C-IC,UPD789026GB-A54-8ES
	87-A21-161-040		C-IC,BA6392FP
	87-A20-712-040		C-IC,BA6417F
TRANSISTOR			
	87-A30-248-040		C-TR,2SB1197KQ
	87-A30-289-040		C-TR,2SA1037AK(R)
	87-A30-011-080		C-TR,DTB113ZK
	87-A30-273-040		C-TR,DTC124EKA
DIODE			
	87-A40-250-040		CHIP-DIODE,DAN217
CD C.B			
C803	87-A10-711-080		C-CAP,E 100-6.3 M MF
C804	87-012-274-080		CHIP CAP,U 1000P-50B
C805	87-A12-319-080		C-CAP,U 0.1-25 K B
C806	87-012-280-080		CAP, U 3300P-50
C808	87-A12-319-080		C-CAP,U 0.1-25 K B
C809	87-010-880-080		C-CAP,E 47-6.3 MF
C811	87-012-274-080		CHIP CAP,U 1000P-50B
C812	87-012-165-080		C-CAP,U 3P-50 C CH
C814	87-012-274-080		CHIP CAP,U 1000P-50B
C816	87-010-880-080		C-CAP,E 47-6.3 MF
C817	87-010-885-080		C-CAP,E 22-10 MF
C831	87-012-199-080		CAP 220P
C832	87-A10-504-080		C-CAP,U 0.047-16 K B
C833	87-012-268-080		C-CAP,U 330P-50 B
C834	87-012-198-080		CAP 180P
C835	87-A12-319-080		C-CAP,U 0.1-25 K B
C836	87-012-199-080		CAP 220P
C837	87-012-281-080		C-CAP,U 3900P-50 B
C838	87-A10-504-080		C-CAP,U 0.047-16 K B
C839	87-A10-711-080		C-CAP,E 100-6.3 M MF
C840	87-A12-319-080		C-CAP,U 0.1-25 K B
C841	87-012-286-080		CAP, U 0.01-25
C842	87-016-526-080		C-CAP,S 0.47-16 BK
C843	87-012-198-080		CAP 180P
C844	87-012-198-080		CAP 180P
C845	87-012-273-080		C-CAP,U 820P-50 B
C846	87-012-273-080		C-CAP,U 820P-50 B
C847	87-010-885-080		C-CAP,E 22-10 MF
C848	87-010-885-080		C-CAP,E 22-10 MF
C861	87-A12-319-080		C-CAP,U 0.1-25 K B
C862	87-A12-319-080		C-CAP,U 0.1-25 K B
C863	87-010-880-080		C-CAP,E 47-6.3 MF
C864	87-A12-319-080		C-CAP,U 0.1-25 K B
C881	87-A10-473-080		C-CAP,E 47-10 MF10FC(M)
C882	87-A12-319-080		C-CAP,U 0.1-25 K B
C884	87-012-274-080		CHIP CAP,U 1000P-50B
C885	87-A10-473-080		C-CAP,E 47-10 MF10FC(M)
C886	87-A12-319-080		C-CAP,U 0.1-25 K B
C887	87-A12-319-080		C-CAP,U 0.1-25 K B
C888	87-A12-319-080		C-CAP,U 0.1-25 K B
C889	87-A10-473-080		C-CAP,E 47-10 MF10FC(M)
C891	87-012-199-080		C-CAP,U 220P-50CH
C892	87-012-199-080		C-CAP,U 220P-50CH
C893	87-012-199-080		C-CAP,U 220P-50CH
C894	87-012-199-080		C-CAP,U 220P-50CH
C895	87-012-199-080		C-CAP,U 220P-50CH
C896	87-012-199-080		C-CAP,U 220P-50CH
C897	87-012-199-080		C-CAP,U 220P-50CH
C898	87-012-274-080		CHIP CAP,U 1000P-50B
C899	87-A10-711-080		C-CAP,E 100-6.3 M MF
CN801	87-A61-529-080		C-CONN,15P H FLZ-SM1-TB
CN891	87-A61-220-080		C-CONN,20P H 52271-2090
L801	87-A50-536-080		C-COIL,10UH K LQH3C24
L802	87-A50-536-080		C-COIL,10UH K LQH3C24
L831	87-A50-536-080		C-COIL,10UH K LQH3C24
L832	87-A50-536-080		C-COIL,10UH K LQH3C24
L833	87-A50-536-080		C-COIL,10UH K LQH3C24
L861	87-A50-536-080		C-COIL,10UH K LQH3C24
L881	87-A50-536-080		C-COIL,10UH K LQH3C24
S861	87-A91-627-080		SW,PUSH MPU10372MLBO
X831	87-A70-261-080		C-VIB,CER 16.93MHZ CSTCW-MX03T
X861	87-A70-333-080		C-VIB,CER 5.0MHZ CSTCR5M00G53
SENSOR C.B			
SW1	87-A91-627-080		SWITCH
SW2	87-A91-627-080		SWITCH

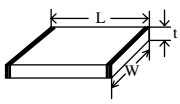
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

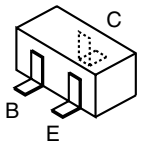
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

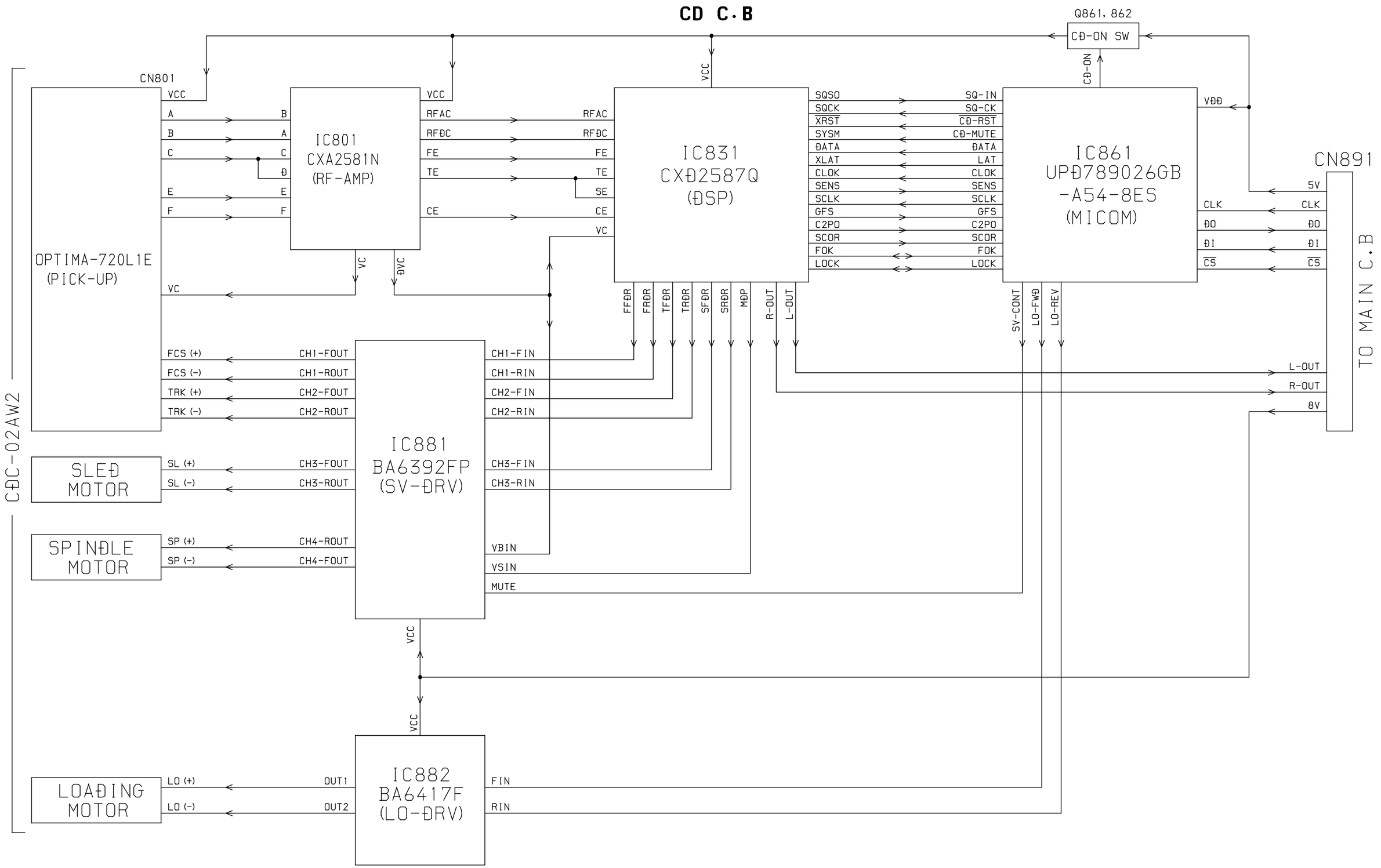
TRANSISTOR ILLUSTRATION



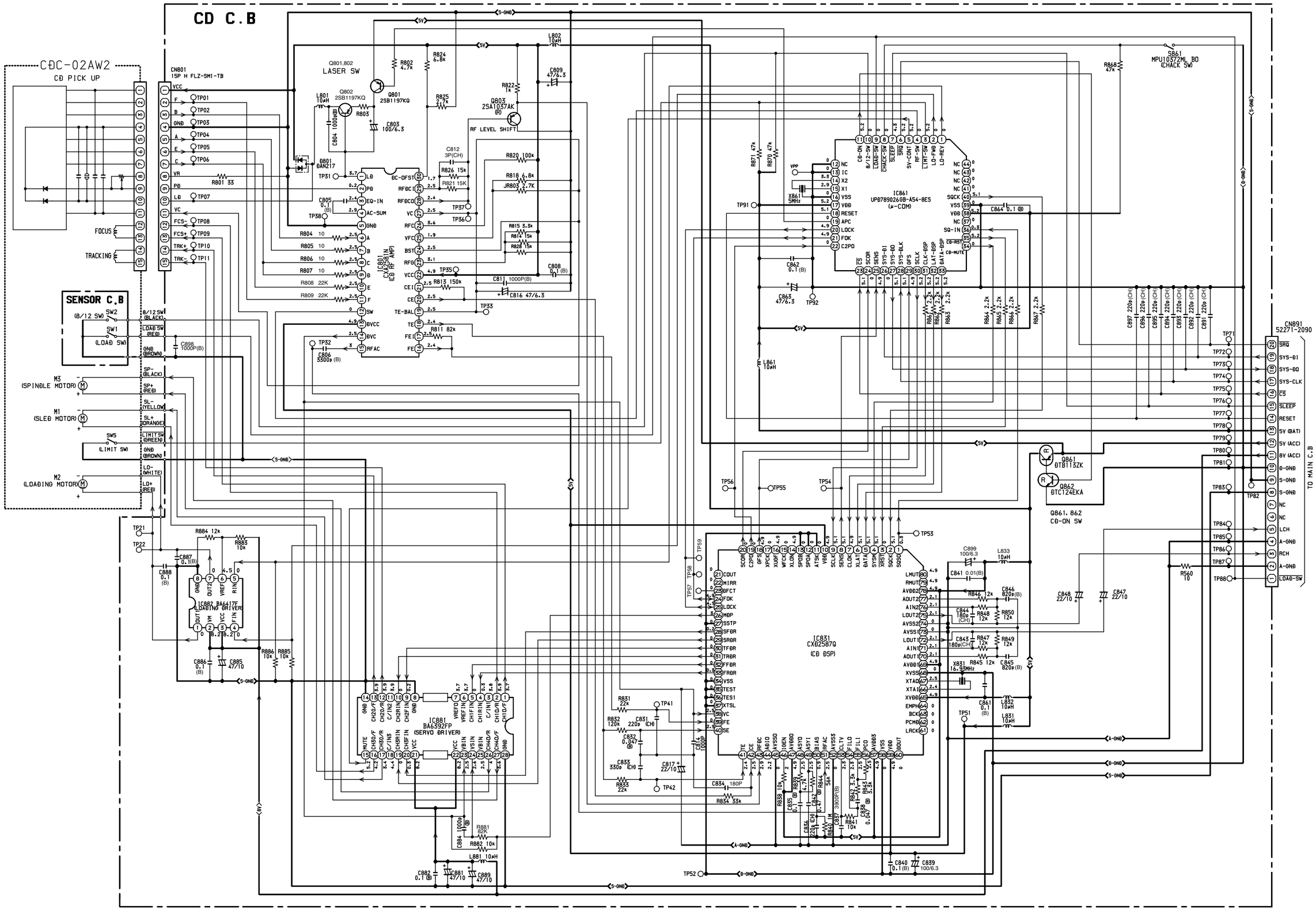
2SA1037
2SB1197
DTC124EKA
DTB113ZK

CDC02AW2 - 4/11

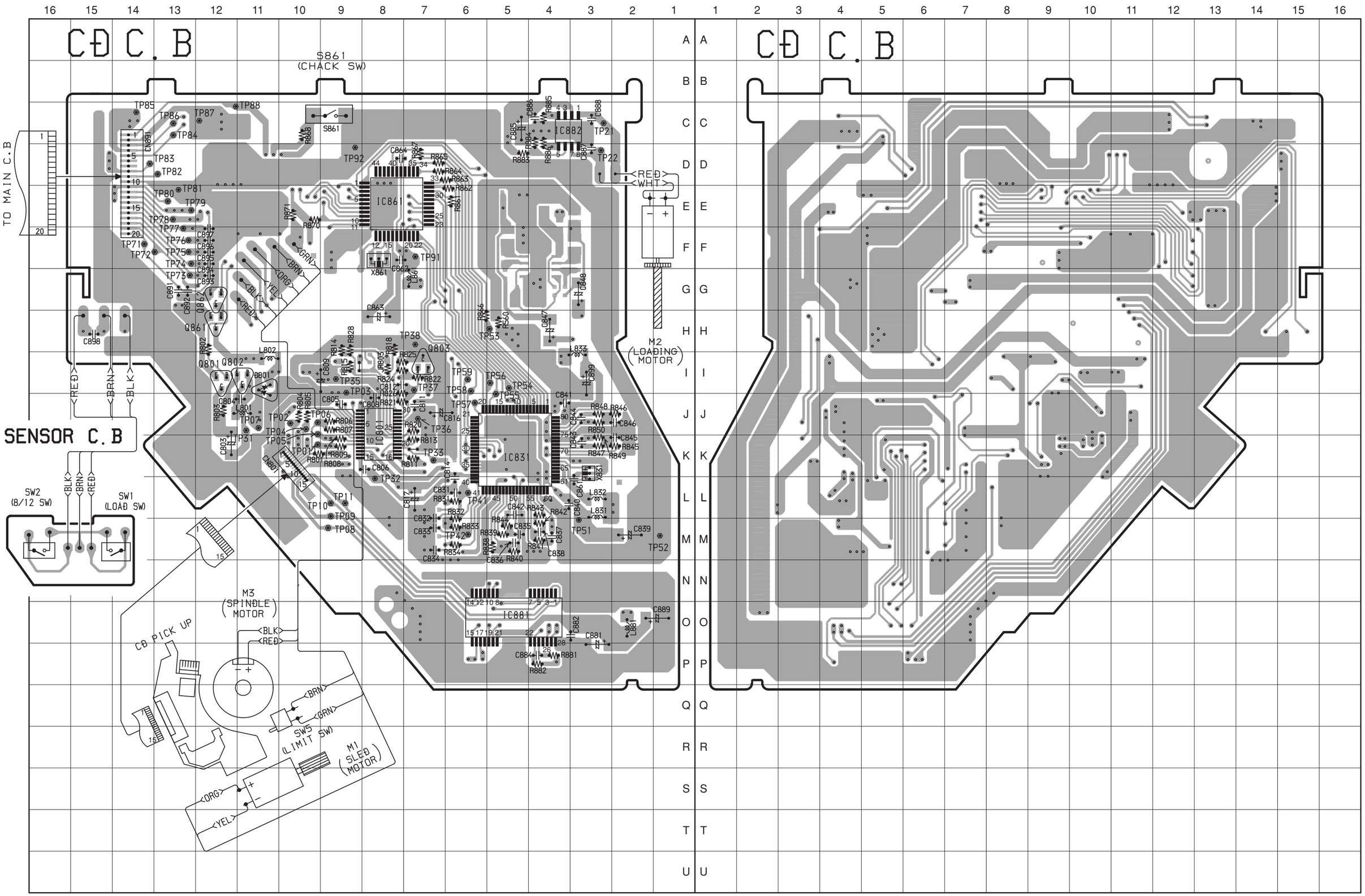
BLOCK DIAGRAM - 1/1



CDC02AW2 - 5/11
SCHEMATIC DIAGRAM - 1/1(CD SECTION)

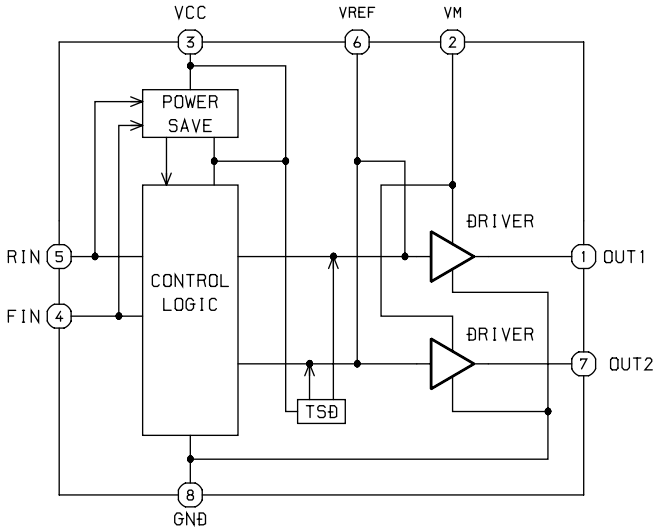


CDC02AW2 - 6/11
WIRING - 1/1 (CD C.B)

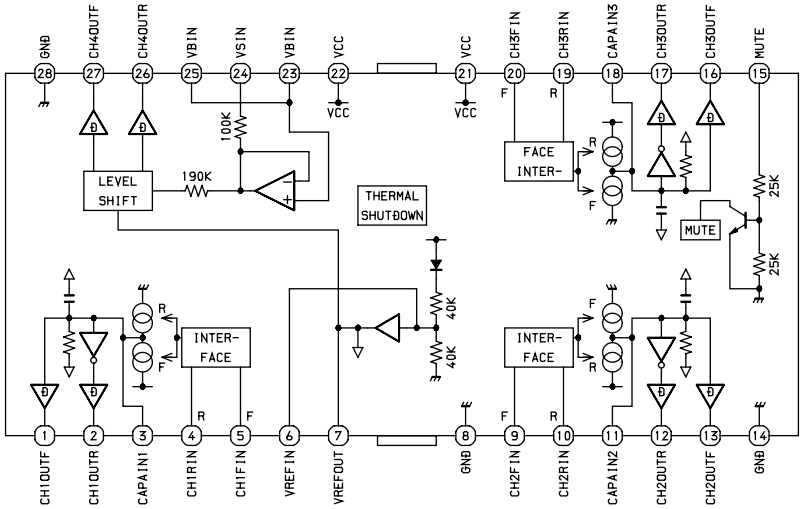


IC BLOCK DIAGRAM -1/1

IC, BA6417F



IC, BA6392FP



IC DESCRIPTION - 1/3 (CXD2587Q) -1/2

Pin No.	Pin Name	I/O	Description
1	SQSO	O	Sub-Q 80-bit and PCM peak/level data output. CD TEXT data output.
2	SQCK	I	Clock input for reading SQSO.
3	XRST	I	System reset. Reset at "L".
4	SYSM	I	Muting input. Muted at "H".
5	DATA	I	Serial data input from CPU
6	XLAT	I	Latch input from CPU. Latches serial data at the trailing edge.
7	CLOK	I	Clock input for serial data transfer from CPU
8	SENS	O	SENS output to CPU
9	SCLK	I	Clock input for reading SENS serial data
10	VDD	—	Power supply of digital circuits
11	ATSK	I/O	Input/output for anti-shock
12	SPOA	I	Microprocessor extended interface (input A)
13	SPOB	I	Microprocessor extended interface (input B)
14	XLON	O	Microprocessor extended interface (output)
15	WFCK	O	WFCK output
16	XUGF	O	WUGF output. MNT1 or RFCK is output when switched by command.
17	XPCK	O	XPCK output. MNT0 is output when switched by command.
18	GFS	O	GFS output. MNT3 or XROF is output when switched by command.
19	C2PO	O	C2PO output. GTOP is output when switched by command.
20	SCOR	O	Outputs "H" when Sub-code sync S0 or S1 is detected.
21	COUT	I/O	Track number count signal input/output
22	MIRR	I/O	Mirror signal input/output
23	DFCT	I/O	Defect signal input/output
24	FOK	I/O	Focus OK signal input/output
25	LOCK	I/O	Outputs "H" when GFS sampled by 460 Hz is "H"; "L" when GFS is "L" continuously for 8 samplings. Or, a signal is input when LKIN is "1".
26	MDP	O	Spindle motor servo control output
27	SSTP	I	Disc innermost edge detection signal input
28	SFDR	O	Sled drive output
29	SRDR	O	Sled drive output
30	TFDR	O	Tracking drive output
31	TRDR	O	Tracking drive output
32	FFDR	O	Focus drive output
33	FRDR	O	Focus drive output
34	VSS	—	Ground of digital circuits
35	TEST	I	TEST pin. Normally, grounded.
36	TES1	I	TEST pin. Normally, grounded.
37	XTSL	I	Crystal select input. "L" when 16.9344MHz crystal is used; "H" when 33.8688MHz crystal is used.
38	VC	I	Neutral voltage input
39	FE	I	Focus error signal input

IC DESCRIPTION - 1/3 (CXD2587Q) -2/2

Pin No.	Pin Name	I/O	Description
40	SE	I	Sled error signal input
41	TE	I	Tracking error signal input
42	CE	I	Neutral servo analog input
43	RFDC	I	RF signal input
44	ADIO	O	For test. Do not connect.
45	AVSS0	—	Ground of analog circuits
46	IGEN	I	Constant current input for OP amp
47	AVDD0	—	Power supply of analog circuits
48	ASYO	O	EFM full-swing output ("L": Vss; "H": VDD)
49	ASYI	I	Asymmetry comparator voltage input
50	BIAS	I	Asymmetry circuit constant current input
51	RFAC	I	EFM signal input
52	AVSS3	—	Ground of analog circuits
53	CLTV	I	VCO1 control voltage input for multiplication
54	FILO	O	Filter output for master PLL (Slave: Digital PLL)
55	FILI	I	Filter input for master PLL
56	PCO	O	Charge pump output for master PLL
57	AVDD3	—	Power supply of analog circuits
58	VSS	—	Ground of digital circuits
59	VDD	—	Power supply of digital circuits
60	DOUT	O	Digital output
61	LRCK	O	D/A interface LR clock output f=Fs
62	PCMD	O	D/A interface serial data output (2's COMP, MSB first)
63	BCK	O	D/A interface bit clock output
64	EMPH	O	Outputs "H" when disc to be played is applied with emphasis; "L" when disc is not applied with emphasis.
65	XVDD	—	Power supply of master clock
66	XTAI	I	Crystal oscillator input. External master clock is input to this pin.
67	XTAO	O	Crystal oscillator output.
68	XVSS	—	Ground of master clock
69	AVDD1	—	Power supply of analog circuits
70	AOUT1	O	Lch analog output
71	AIN1	I	Lch OP amp input
72	LOUT1	O	Lch LINE output
73	AVSS1	—	Ground of analog circuits
74	AVSS2	—	Ground of analog circuits
75	LOUT2	O	Rch LINE output
76	AIN2	I	Rch OP amp input
77	AOUT2	O	Rch analog output
78	AVDD2	—	Power supply of analog circuits
79	RMUT	O	Rch "0" detection flag
80	LMUT	O	Lch "0" detection flag

IC DESCRIPTION - 2/3 (CXA2581N) -1/1

Pin No.	Pin Name	I/O	Description
1	LD	O	APC amp output
2	PD	I	APC amp input
3	EQ-IN	I	RFAC-system VCA/EQ block input
4	AC-SUM	O	RFAC-system RF SUM output
5	GND	—	Ground
6	A	I	A-signal input
7	B	I	B-signal input
8	C	I	C-signal input
9	D	I	D-signal input
10	E	I	E-signal input
11	F	I	F-signal input
12	SW	I	MODE switching signal input
13	DVCC	O	DVcc
14	DVC	O	DVC output
15	RFAC	O	RFAC signal output
16	FE	O	Focus error signal output
17	FEI	I	FE amp virtual ground
18	TE	O	Tracking error signal output
19	TE-BAL	I	TE balance adjustment
20	CE	O	Center error signal output
21	CEI	I	CE amp virtual ground
22	VCC	I	Vcc
23	RFG	I	RFAC-system VCA block low-frequency gain adjustment
24	BST	I	EQ boost level adjustment
25	VFC	I	EQ cutoff frequency adjustment
26	RFC	I	EQ cutoff frequency adjustment
27	VC	O	VC voltage output
28	RFDCO	O	RFDC signal output
29	RFDCI	I	RFDC amp virtual ground
30	DC-OFST	I	RFDC signal output offset adjustment

IC DESCRIPTION - 3/3 (UPD789026GB-A54-8ES) -1/1

Pin No.	Pin Name	I/O	Description
1	LO-REV	O	Loading motor reverse drive output. Active “H/L”.
2	LO-FWD	O	Loading motor forward drive output Active “H/L”.
3	LIMT-SW	I	Inner edge limit switch. Active “L”.
4	RF-SW	O	CD/CD-RW switching output. Active “H”.
5	SV-CONT	O	Outputs “H” when power is turned on. Active “H”.
6	SRQ	O	Mechanism microprocessor communication request. Active “L”.
7	SLEEP	I	SLEEP request from system microprocessor. Active “L”.
8	CHACK-SW	I	Chucking complete switch. Active “L”.
9	LOAD-SW	I	Disc loading switch. Active “L”.
10	8/12-SW	I	8/12-cm check switch
11	CD-ON	O	CD mechanism power control output. Active “H”.
12	NC	–	Ground
13	IC	–	Ground
14	X2	–	For generating main system clock
15	X1	–	For generating main system clock
16	VSS	–	Ground
17	VDD	–	Power supply
18	RESET	I	System reset input
19	APC	O	Laser on/off switching output. Active “H/L”.
20	LOCK	I/O	LOCK input
21	FOK	I/O	Focus OK signal input/output
22	C2PO	I	C2PO input
23	CS	I	CS signal input. Active “L”.
24	SCOR	I	Sub-code sync input
25	SENS	I	SENS input
26	SYS-DI	I	System microprocessor serial data input
27	SYS-DO	O	System microprocessor serial data output
28	SYS-CLK	I	System microprocessor serial sync clock input
29	GFS	I	GFS input
30	SCLK	O	Outputs clock for reading SENS serial data
31	CLK-DSP	O	Outputs clock for transferring DSP serial data
32	LAT-DSP	O	DSP serial data latch output
33	DATA-DSP	O	DSP serial data output
34	CD-MUTE	O	Muting output. Active “H”.
35	CD-RST	O	CD reset output. Active “L”.
36	SQ-IN	I	Sub-Q/PCM peak/level data input
37	NC	–	Not connected
38	VDD	–	Power supply
39	VSS	–	Ground
40	SQCK	O	Outputs clock for reading SQSO
41 ~ 44	NC	–	Not connected

アイワ株式会社〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD.2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111

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